Detroit Diesel Engines

8.2 Liter Parts Catalog



Parts Catalog

Detroit Diesel Engines SERIES 8.2 LITER

August, 1985



Detroit Diesel Allison

13400 Outer Drive, West Detroit, Michigan 48239-4001

NOTE:

This printed parts catalog is current as of date of issue. Interim revisions are available only on Microfiche. Either may be purchased from Detroit Diesel Allison Distributors. See your yellow pages—under Engines, Diesel.

CAUTION METRICS AT WORK

Detroit Diesel Engines contain parts dimensioned in the metric system as well as in the customary system. Many fasteners are metric and are very close in dimension to familiar customary fasteners in the inch system. It is important to note that, during any maintenance procedures, replacement fasteners must have the same measurements and strength as those removed, whether metric or customary. (Numbers on the heads of metric bolts and on surfaces of metric nuts indicate their strength. Customary bolts use radial lines for this purpose, while most customary nuts do not have strength markings.) Mismatched or incorrect fasteners can result in engine damage or malfunction, or possibly personal injury. Therefore, fasteners removed from the engine should be saved for re-use in the same locations whenever possible. Where the fasteners are not satisfactory for re-use, care should be taken to select a replacement that matches the original. For information and assistance, see your Detroit Diesel Allison Service Outlet.

NOTE: Metric Hardware is identified in the Parts Catalogs through its unique nomenclature. Conventional hardware can always be recognized by the inch marks "", common to diameter and length.

DETROIT DIESEL 8.2 ENGINES

GENERAL INFORMATION

GENERAL INFORMATION

All engine components in this catalog are divided into twelve major groups of functionally related parts. A listing of the groups and their sub-groups appears under "Group Nomenclature" on page 5 of this section.

Within each sub-group different designs of similar equipment are shown, each being designated by a type number. The type number in one sub-group has no relationship to the same type number in another sub-group.

Each Engine Model is provided with a Model Index, which shows the Standard and Standard Option type numbers currently available on the model. All optional equipment type numbers are listed on the engine Option Label, as shown in the illustration below.

The names and type numbers of optional equipment built into the unit at the factory, are listed on this label, along with the unit model and serial number. Material not listed on the Option Label, is standard equipment and the type number is obtained from the model index.

Engines prior to serial number 8G27987 were built with standard equipment only. No optional equipment was offered. No option label was provided. A list of these models and their parts book types are shown on the chart at the beginning of the model index section.

To locate a part, first, establish the group where the part is used (see the Alphabetical Index or Group Nomenclature page) then, determine the type number for the group from the Model Index. With this information, turn to the proper group and locate the type number at the top of the page. All parts applicable to the type are indicated by the quantity shown in the column. An AR in this column indicates an "as required" quantity.

EXAMPLE

For purposes of illustration, a model 4087-7100 unit will be used. The following examples cover the steps to be followed:

- 1. To determine the part number of the crankshaft, refer to the Model Index and establish that the crankshaft is type 74 in group 1.3000. Turn to group 1.3000 and locate type 74 at the top of the page. All items with a quantity in this column apply to this unit. In Sub-group 1.3001 crankshaft assy., the quantity in type 74 column shown the crankshaft to be part number 8920193.
- 2. To determine the proper starter motor for this unit refer to the Option Label and note that starting motor type number is 311, consult the group nomenclature page to establish that the starter motor is group 7.3000A. Now turn to group 7.3000A and find type 311 at the top of the page. The quantity shown in type 311 at sub-group 7.3001 shows the starting motor to be part number 1114934.

Type Equipment
0598 F/W Housing
0967 FLYWEEL
0947 DIPSTICK
0807 VENT SYSTEM
0212 WATER PUMP
0517 EXH MFLD
0173 INJECTOR
1601 GOVERNOR MECH
0647 FOIGHE MOUNTS
0455 ROCKER COMER
NT TIMING SPEC
NT NAME PLATE

DETROIT DIESEL
ALLISON DIV. G.M.E.

- OPTION LABEL-

ASSEMBLY BREAKDOWN

The Assembly Breakdown section is designed to eliminate repeating components of assemblies and sub-assemblies. When the Assembly Breakdown is used it is always found at the end of the group it pertains to. The pages are numbered with an alphabetical prefix. Assemblies which make use of the Assembly Breakdown will have a note to that effect under the sub-group heading. The note will refer to the page on which the assembly is shown. The part number will appear in the first group of the Assembly Breakdown showing the quantity used in one of the alphabetically designated columns. All other items appearing in that column are components of the assembly.

ALPHABETICAL INDEX

The Alphabetical Index following page 5 is particularly helpful when only a part name is known and the group can not readily be determined. Parts are listed alphabetically by noun name, followed by a description of the application of the part and the final group location. Component parts of assemblies are not listed since they will appear in the body of the book immediately following the assembly to which they belong.

PARTS RELEASE

A parts Release on Microfiche, is issued periodically to keep this catalog up-to-date. It consists of revised Fiche for insertion in the set. All new Fiche carry a date of issue.

These should be inserted into the deck immediately upon receipt. Old Fiche may then be destroyed.

A checklist is included with each Microfiche update. This checklist will indicate, by date, those Fiche revised and reissued.

MISCELLANEOUS

At the beginning of each of the sections of this catalog there are several pages of illustrations. In each section of the parts list figure numbers refer to illustrations within that section only unless otherwise noted. In the majority of cases illustrations are typical, that is, they may represent more than one part number. For example, in the case of the flywheel housing, figure 5C of section 1.0000, a single housing is shown to represent all housings. Key numbers on illustrations are final group numbers.

In many instances a part has more than one application. Wherever a part appears in its second or third application the basic group is shown in parenthesis following the description.

Unless otherwise specified, standard bolts in the parts list are hexagon head. Other standard parts are described in detail.

The information and illustrations in this publication are based on the information in effect at the time of approval for printing. The right is reserved to make changes at any time without notice.

YOUR PARTS ORDER WILL BE HANDLED MORE EFFICIENTLY IF YOU-

- 1. Provide the following information for material ordered:
 - A. Group in parts book in which it is specified.
 - B. Quantity desired.
 - C. Part Number.
 - D. Complete Nomenclature.
 - E. The Type number for the model concerned.
 - F. Complete unit model identification and serial number.
 - G. "TYPE" rather than "WRITE" the above information.
- 2. Furnish complete shipping instruction. This is particularly important in case the order is not to be handled in the regular manner. Indicate whether shipment should be made via parcel post, express, air freight, etc.
- 3. Confirm all telegraph and telephone orders immediately, clearly marking any such orders "CONFIRMING" to avoid duplication of shipment of such orders.

GROUP NOMENCLATURE

	GROUP	NOMENCL	ATURE
1.0000	ENGINE (less major assemblies)	5.0000	COOLING OVERTER (CONTINE)
1.1000	Cylinder Block	5.4000B	COOLING SYSTEM (CONT'D) Fan Shroud
1.10004	A Air Box Drains	5.5000A	. 511 0111 000
1.2000	Cylinder Head	5.6000A	The Exchange of Reel Coolling
1.2000/	Engine Lifter Bracket	5.7000A	Water Fump Water Filter
1.3000	Crankshaft, Oil Seals and Stabilizers	5.7000A	water Filter
1.30004	Crankshaft Front Cover	6.0000	EVITATIOT OVERTING
1.3000E			EXHAUST SYSTEM
1.30000		6.1000A	Exhaust Manifold and/or Connections
1.3000		6.2000A	Exhaust Muffler and/or Connections
1.4000		7.0000	
1.5000		7.0000	ELECTRICAL-INSTRUMENTS
1.5000B	· · · · · · · · · · · · · · · · · · ·	7.1000A	Battery Charging Generator
1.6000	Connecting Rod and Piston	7.2000A	Battery Cables
1.7000	Camshaft and Gear Train	7.2000B	Automatic Starting
1.7000A		7.2000B	Automatic Starting (Twin and Quad)
1.7000B	Accessory Drive	7.3000A	Starting Motor
1.8000	Valve and Injector Operating Mechanism	7.4000A	Instruments
1.8000A	Rocker Cover	7.4000A	Instruments (Twin and Quad)
	HOCKET COVET	7.4000B	Tachometer Drive
2.0000	FUEL SYSTEM	7.4000B	Tachometer Drive (Twin and Quad)
2.1000A		7.4000C	Shutoff, Alarm and O.S. Governor
2.2000	Fuel Pump	7.4000C	Shutoff, Alarm and O.S. Governor (Twin and Quad)
2.2000A		7.5000A	Power Generator
2.3000A	Fuel Filter and Co.	7.6000A	Control Cabinet
2.3000A		7.6000A	Control Cabinet (Twin and Quad)
2.4000	. 44. A LEG OND SCHOOLER (1 WILL AND CHIAM)	7.7000A	Wiring Harness
2.4000A	Fuel Manifold and/or Connections	7.8000A	Air Heater
2.5000A	· ac ay stony	7.8000A	Air Heater (Twin and Quad)
2.5000A 2.5000A		7.10000A	Hydraulic Governor Solenoid
2.6000A		8.0000	POWER TAKE-OFF
2.6000B	Electric Governor	8.1000A	Power Take-off and/or Clutch
2.7000A	Mechanical Governor	8.1000A	Power Take-off and/or Clutch (Twin and Quad)
2.8000A	Hydraulic Governor	8.3000A	Torque Converter
2.9000	Injector Controls	8.3000A	Torque Converter (Twin and Quad)
2.9000	Injector Controls (Twin and Quad)	8.3000B	Transmission Lines
2.9000A	Throttle Controls	0.0000	Transmission Lines
2.9000A	Throttle Controls (Twin and Quad)	9.0000	TRANSMISSION AND PROPULSION
		9.1000A	Hydraulic Marine Gear
3.00 00	AIR SYSTEM	9.1000A	Hydraulic Marine Gear (Twin and Quad)
3.1000A	Air Cleaner and/or Adaptor	9.2000A	Reverse and Reduction Gear (mechanical)
3.2000A	Air Silencer	9.3000A	Power Transfer Gear
3.3000A	Air Inlet Housing	9.3000A	
3.4000	Blower and Drive	9.4000	Power Transfer Gear (Twin and Quad)
3.4000A	Blower Drive Shaft	9.7000	Transmission—Highway
3.4000B	Blower End Plate Cover	9.9000	Transmission—Off-highway
3.5000A	Turbocharger, Intercooler, and Aftercooler	9.9000	Transmission—Rail Car
	3-7 Mar Societ, and Aftercooler	10 0000	CUPET METAL
4.0000	LUBRICATING SYSTEM		SHEET METAL
4.1000A	Oil Pump	10.1000A	Engine Hood
4.1000B	Oil Distribution System	11 0000	
4.1000C	Oil Pressure Regulator	11.0000	ENGINE MOUNTING
4.2000A	Oil Filter	11.1000A	Engine Mounting and Base
4.3000A	Oil Filter Lines	11.1000A	Engine Mounting and Base (Twin and Quad)
4.4000A	Oil Cooler and Marine Gear Lines		
4.5000A	Oil Filler		MISCELLANEOUS
4.6000A	Dipstick	12.2000A	Bilge Pump
4.7000A	Oil Pan	12.3000A	Vacuum Pump
4.8000A		12.4000A	Air Compressor
1.00007	Ventilating System	12.5000A	Hydraulic Pump
5.0000	COOL ING AVE	12.6000A	Gasoline Starter
5.1000	COOLING SYSTEM	12.6000B	Air Starter
5.1000 5.1000A	Fresh Water Pump	12.6000C	Cold Weather Starting Aid
	Fresh Water Pump Cover	12.6000D	Hydraulic Starter
5.2000A	Water Outlet Manifold and/or Elbow	12.6000E	Hydraulic Starter Accessories
.2000B	Thermostat	12.8000A	Supplies
5.2000C	Water Bypass Tube	12.8000B	Fabrication Material
5.3000A	Radiator	12.8000C	Miscellaneous Service Kits and Sets
5.3000B	Water Connections	12.8000D	Miscellaneous Service Parts
5.4000A	Fan		
		Page 5	

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PART NAME	GROUP NO.	PART NAME	GROUP NO.
A		В	
ADAPTOR, AIR CLEANER MOUNTINGADAPTOR, DIPSTICK ADAPTOR, EXHAUST OUTLET	4. 6030	BUSHING, EXHAUST VALVE ROCKER ARM-LARGE BUSHING, INTAKE VALVE ROCKER BUSHING, OIL PUMP BODY	. 1. 8105
ADAPTOR, FLYWHEEL HOUSING	4. 4110	С	
ADAPTOR, OIL FILTER COVER		CAGE, INJECTOR CHECK VALVE	
ADAPTOR, TURBOCHARGER TO AIR INLET HOUSING		CAGE, INJECTOR VALVE SPRING CAM, RAW WATER PUMP BODY OFFSET	. 5. 6035
ARR INLET HOUSINGARR ASSY., EXHAUST VALVE ROCKER	1. 8060	CAMSHAFT & GEAR TRAIN	. 1. 7001
ARM ASSY., INJECTOR ROCKERARM ASSY., INTAKE VALVE ROCKER		CAP, CRANKSHAFT MAIN BEARING	. 5. 5140
В		CAP, GOVERNOR LOW SPEED SPRING CAP, OIL FILLER CARRIER AND WEIGHT ASSY., GOVERNOR	. 4. 5010
BATTERY CHARGING GENERATOR BEARING, BELT GUIDE		CARRIER, GOVERNOR WEIGHT SHAFT CLAMP, AIR SILENCER MOUNTING	. 2. 7370
BEARING, CAMSHAFT INTERMEDIATE BEARING, CLUTCH DRIVE SHAFT	1. 7040	CLAMP, EXHAUST MANIFOLD FRESH WATER INLET HOSE	
BEARING, CLUTCH PILOT BEARING, GOVERNOR OPERATING SHAFT-UPPER	8. 1450	CLAMP, HEAT EXCHANGER FRESH WATER INLET HOSE	
BEARING, GOVERNOR VARIABLE SPEED SPRING LEVER		CLAMP, HEAT EXCHANGER RAW WATER INLET TUBE HOSE	
BEARING, GOVERNOR VARIABLE SPEED SPRING LEVER SHAFT		CLAMP, INJECTOR	5. 3366
BEARING, GOVERNOR WEIGHT RISER THRUST BEARING, GOVERNOR WEIGHT SHAFT END	2. 7470	CLAMP, OIL COOLER WATER INLET HOSE CLAMP, OIL COOLER WATER OUTLET HOSE	. 4. 4250
BEARING, RAW WATER PUMP BEARING, ROTOR ASSY, SHAFT	3. 5027	CLAMP, OIL COOLER WATER OUTLET TUBE HOSE CLAMP, TURBO TO AIR SILENCER HOSE	. 3. 2018
BELT, AIR COMPRESSOR DRIVE BELT, GENERATOR DRIVE	. 7. 1575	CLIP, AIR COMPRESSOR LUBE OIL TUBE CLIP, AIR COMPRESSOR WATER TUBE	.12.4095
BELT, HYDRAULIC PUMP DRIVE BELT, RAW WATER PUMP DRIVE BLADE, FAN	5. 6425	CLIP, BREATHER TUBE	. 2. 5180
BLOCK, CYLINDER BLOCK, FUEL SYSTEM JUNCTION	1. 1001	CLIP, FUEL SUPPLY CROSSOVER TUBE CLIP, OIL FILTER LINES	. 2. 5164
BODY AND SEAL ASSY., EEC GOVERNOR BODY ASSY., INJECTOR	2. 6655	CLUTCH ASSY. COLLAR, CLUTCH RELEASE	. 8. 1017
BODY, FUEL PUMP BODY, RAW WATER PUMP	2 2010	COLLAR, TURBOCHARGER ROTOR THRUST COMPRESSOR ASSY., AIR	. 3. 5034
BOLT, CRANKSHAFT MAIN BEARING CAP BOLT, EXHAUST MANIFOLD TO HEAD	. 1. 3140 . 6. 1025	CONNECTING ROD AND PISTON CONNECTING ROD ASSY.	. 1. 6000
BOLT, MANUAL SHUTDOWN STOP BOLT, ROCKER COVER	. 2. 7811 1 8460	CONNECTION, OIL COOLER WATER INLET CONNECTOR, EXHAUST MANIFOLD FRESH	
BOOT, GOVERNOR TO INJECTOR LINK BOOT, GOVERNOR TO INJECTOR LINK	2. 7834	WATER INLET CONNECTOR, TURBOCHARGER EXHAUST INLET	. 3. 5305
BRACKET, AIR COMPRESSOR MOUNTING	.12.4019	CONTAINER, INJECTOR SHIPPING	. 4. 4001
BRACKET, BREATHER EXTENSION PIPE BRACKET, ENGINE LIFTER-FRONT BRACKET ENGINE LIFTER FRONT	1. 2070	COUPLING, FUEL PUMP DRIVE COUPLING, MARINE GEAR DRIVE	. 9. 1006
BRACKET, ENGINE LIFTER-REAR BRACKET, FILTER TO CYLINDER HEAD CLIP BRACKET, FUEL FILTER MOUNTING	2. 5190	COVER ASSY., GOVERNOR-COMPLETE COVER ASSY., ROCKER	. 1. 8450
BRACKET, FUEL PUMP TO FILTER HOSE CLIP BRACKET, GENERATOR ADJUSTING STRAP	2. 5130	COVER, CRANKSHAFT FRONT COVER, CYLINDER BLOCK TURBO MOUNTING	
BRACKET, GENERATOR MOUNTING BRACKET, HEAT EXCHANGER MOUNTING	7. 1595	HOLE	
BRACKET, HYDRAULIC PUMP SUPPORT BRACKET, INJECTOR CONTROL TUBE	12.5023	COVER, CYLINDER HEAD GOVERNOR HOLE COVER, CYLINDER HEAD WATER HOLE	. 1. 2050
BRACKET, OIL FILTER MOUNTING	. 4. 2440 . 4. 1540	COVER, FLYWHEEL HOUSING INSPECTION HOLE COVER, FRESH WATER PUMP BODY	. 1. 5080 . 5. 1031
BRACKET, RAW WATER PUMP MOUNTING BRACKET, ROCKER SHAFT	5. 6380 1. 8170	COVER, FUEL FILTER	. 2. 2030
BRACKET, THROTTLE BOOSTER SPRING BUSHING INJECTOR ROCKER ARM-LARGE	2. 7975 1. 8110	COVER, FUEL STRAINER COVER, GOVERNOR VARIABLE SPEED SPRING	
BUSHING, CONNECTING ROD PISTON PIN	1. 6040	HOUSING	. 2. 7692

ALP	HABEII	CAE INDEX	
PART NAME	GROUP NO.	PART NAME	GROUP NO.
С		G	
COVER, GOVERNOR WEIGHT HOUSING	5. 5030	GASKET, GOVERNOR COVER GASKET, GOVERNOR HIGH SPEED SPRING COVER GASKET GOVERNOR TO CYLINDER BLOCK	2. 7650 2. 6502
COVER, RAW WATER PUMP	5. 6090 3. 5503 1. 3000	GASKET, GOVERNOR TO CYLINDER BLOCK GASKET, GOVERNOR WEIGHT HOUSING COVER GASKET, HEAT EXCHANGER COVER GASKET, OIL COOLER ADAPTOR TO BLOCK	. 2. 7008 . 2. 7530 . 5. 5050
CRANKSHAFT ASSY. CRANKSHAFT PULLEY CYLINDER BLOCK CYLINDER HEAD	1. 3000C 1. 1000	GASKET, OIL COOLER BYPASS VALVE PLUG GASKET, OIL COOLER CORE-INNER GASKET, OIL COOLER CORE-OUTER	. 4. 4170 . 4. 4030 . 4. 4040
D		GASKET, OIL FILTER BYPASS PLUG GASKET, OIL PAN DRAIN PLUG GASKET, OIL PAN TO BLOCK	. 4. 7090
DEFLECTOR, ROTOR ASSY. SHAFT OIL	4. 6000A	GASKET, OIL PAN TO BLOCK GASKET, OIL PRESSURE REGULATOR PLUG GASKET, OIL PUMP INLET PIPE GASKET, RAW WATER PUMP COVER	. 4. 1720 . 4. 1520
DIPSTICK DISC ASSY., CLUTCH		GASKET, ROCKER COVER	. 1. 8455 . 7. 3004
ELBOW, BREATHER	4. 8013	GASKET, THERMOSTAT HOUSING GASKET, TURBOCHARGER AIR OUTLET ELBOW . GASKET, TURBOCHARGER EXHAUST INLET	. 3. 5418
ELBOW, CYLINDER HEAD FRESH WATER OUTLET ELBOW, OIL COOLER WATER OUTLETELBOW, TURBOCHARGER AIR INLET	4. 4220 3. 1259	CONNECTION	. 3. 5504 . 9. 1001
ELBOW, TURBOCHARGER AIR OUTLETEXTENSION, BREATHER TUBEEYE, THROTTLE BOOSTER ADJUSTING	4. 8010	GEAR, CAMSHAFT AND BALANCE SHAFT GEAR, CRANKSHAFT TIMING	. 1. 7200 . 1. 3145 . 1. 4010
F		GEAR, FUEL PUMP DRIVE GEAR, GOVERNOR DRIVE GFAR INJECTOR	. 2. 2087 . 2. 7960 . 2. 1180
FACING, CLUTCH FAN, GENERATOR FILTER ASSY., FUEL	7. 1440 2. 3310	GEAR, OIL PUMP DRIVE-ON PUMP GENERATOR ASSY. GOVERNOR ASSY.	. 4. 1380 . 7. 1001
FILTER ASSY., OIL FILTER UNIT, BREATHER FLANGE, PROPELLER DRIVE FLYWHEEL	4. 8060 9. 1430	GOVERNOR ASSY	. 2. 7001 . 1. 8300
FLYWHEEL ASSY. FLYWHEEL HOUSING FOLLOWER ASSY., CAM	1. 4001 1. 5000A	GUIDE, GOVERNOR VARIABLE SPEED SPRING PLUNGER	
FOLLOWER, INJECTOR FORK, GOVERNOR OPERATING SHAFT-LOWER	2. 1060 2. 7290	H HANGER, THROTTLE BOOSTER SPRING	. 2. 7985
FUEL FILTER AND STRAINER	2. 3000A 2. 2000	HEAD ASSY., CYLINDER HOSE, AIR INLET PIPE HOSE CLUTCH RELEASE BEARING	. 1. 2001 . 3. 1270 . 8. 1320
G GASKET KIT, CYLINDER HEAD OVERHAUL	1 2002	HOSE, EXHAUST MANIFOLD FRESH WATER INLET HOSE, FRESH WATER OUTLET	. 5. 3446
GASKET KIT, ENGINE OVERHAUL GASKET, AIR CLEANER MOUNTING ADAPTOR GASKET, AIR INLET HOUSING	1. 1002 3. 1087	HOSE, FUEL PUMP TO JUNCTION BLOCK HOSE, HEAT EXCHANGER FRESH WATER INLET HOSE, HEAT EXCHANGER OUTLET CONNECTION	. 5. 3295
GASKET, CLUTCH HOUSING INSPECTION HOLE	8. 1070	TO WATER PUMP HOSE, HEAT EXCHANGER RAW WATER INLET TUBE	5. 5470
HOUSING COVER GASKET, CRANKSHAFT FRONT COVER	1. 3170	HOSE, OIL COOLER WATER INLET HOSE, OIL COOLER WATER INLET CONNECTION HOSE, OIL COOLER WATER OUTLET	. 5. 3365 . 4. 4240
GASKET, CYLINDER BLOCK VALLEY COVER GASKET, CYLINDER HEAD COMPRESSION GASKET, CYLINDER HEAD GOVERNOR HOLE	1. 2010	HOSE, OIL COOLER WATER OUTLET HOSE, TURBO TO AIR SILENCER HOSE, TURBOCHARGER AIR INLET CONNECTION	. 5. 3422 . 3. 2017
COVER GASKET, CYLINDER HEAD WATER HOLE COVER GASKET, ELBOW FRESH WATER OUTLET	1. 2044 5. 3444	HOSE, TURBOCHARGER AIR OUTLET CONNECTION LICENSE ASSY AIR INITE	. 3. 5420 . 3. 3001
GASKET, EXHAUST MANIFOLD GASKET, FLYWHEEL HOUSING GASKET, FRESH WATER PUMP GASKET, FRESH WATER PUMP BODY COVER	1. 5010 5. 1010	HOUSING ASSY, GOVERNOR CONTROL HOUSING ASSY, GOVERNOR VARIABLE SPEED	. 2. 7230
GASKET, FRESH WATER PUMP BODY COVER GASKET, FUEL PUMP TO ENGINE GASKET, FUEL PUMP VALVE PLUG	2. 2007	SPRING	. 2. 7680 E 3. 5018

PART NAME	GROUP NO.	PART NAME	GROUP NO.
н		N	
HOUSING, CLUTCH HOUSING, GOVERNOR CONTROL HOUSING, GOVERNOR HIGH SPEED SPRING	. 2. 7235	NAME PLATE, GOVERNOR NUT, CLUTCH ADJUSTING NUT, INJECTOR VALVE	8. 1144
ADJUSTING SCREW HOUSING, GOVERNOR VARIABLE SPEED SPRING HOUSING, OIL COOLER-ENGINE HOUSING, THERMOSTAT	2. 7690 . 4. 4050 . 5. 2090	OIL COOLEROIL DISTRIBUTION SYSTEM	4, 4000A
HOUSING, TURBOCHARGER COMPRESSOR HOUSING, TURBOCHARGER TURBINE HUB, FRESH WATER PUMP DRIVEN PULLEY	. 3. 5003	OIL FILLER OIL PAN OIL PRESSURE REGULATOR OIL PUMP	4. 5000A 4. 7000A 4. 1000C
1		OVERHAUL KIT, FUEL PUMP	2. 2004
IMPELLER, FRESH WATER PUMP IMPELLER, RAW WATER PUMP	. 5. 6230	P	
INJECTOR	. 2. 1000A . 2. 1001	PACKING, GOVERNOR VARIABLE SPEED SPRI	NG 3 7750
INJECTOR CONTROLSINSTALLTION KIT, BREATHER	. 2. 9000	LEVER SHAFTPAINT, ENGINE TOUCH-UP	12.8001
		PAN, OIL	4. 7001 2. 7315
K KIT, GOVERNOR CONVERSION	2 7012	PIN, GOVERNOR OPERATING SHAFT LEVER PIN, GOVERNOR WEIGHT	
KIT, GOVERNOR INSTALLATION	. 2. 6507	PIN. INJECTOR FOLLOWER	2. 1090
KITS, SERVICE (ALL)	.12.8715	PIN, INJECTOR STOP PIN, PISTON	1. 6140
L		PIPE ASSY., BREATHER	4. 8001 6. 2090
LABEL, TIMING INJECTORLEAD, JUMPER TO SHUTDOWN SOLENOID		PIPE, OIL PUMP INLET PISTON ASSY.	4. 1510
LEVER AND PIN ASSY., GOVERNOR DIFFERENTIAL	2. 7310	PLATE, CAM AND BALANCE SHAFT THRUST	1. 7070
LEVER ASSY., ACTUATORLEVER ASSY., GOVERNOR CONTROL LINK		PLATE, CLUTCH ADJUSTING NUT WEAR PLATE, CLUTCH PRESSURE	8. 1080
HOUSING OPERATINGLEVER, CLUTCH HAND CONTROL		PLATE, FLYWHEEL FLEXIBLE COUPLING PLATE, OPTION AND ACCESSORY NAME	1. 4085 1. 8500
LEVER, CLUTCH RELEASE YOKE LEVER, GOVERNOR CONTROL	. 8. 1142	PLUG, EEC GOVERNOR CAVITY PLUG, FUEL PUMP VALVE	2. 6660
LEVER, GOVERNOR OPERATING SHAFT-UPPER	. 2. 7280	PLUG, OIL COOLER BYPASS VALVE	4. 4160
LEVER, GOVERNOR THROTTLE SHAFT LEVER, GOVERNOR THROTTLE STOP		PLUG, OIL FILTER BYPASS VALVE PLUG, OIL PAN DRAIN	4, 7080
LEVER, GOVERNOR VARIABLE SPEED SPRING LEVER, INJECTOR CONTROL TUBE		PLUG, OIL PRESSURE RELIEF	, , 4 . 1715
LEVER, INJECTOR CONTROL TUBE RACK	. 2. 9014	PLUNGER, GOVERNOR LOW SPEED SPRING	2. 7560
LEVER, THROTTLE BOOSTER SPRING	. 1. 1037	PLUNGER, GOVERNOR VARIABLE SPEED SPR POWER TAKEOFF ASSY	8. 1001
LINK, ACTUATOR OPERATING CONNECTION LINK, CLUTCH RELEASE YOKE		PULLEY, AIR COMPRESSOR	12.4027
LINK, GOVERNOR OPERATING LEVER CONNECTING	2 7312	PULLEY, CRANKSHAFT	1. 3280
LOCK, CLUTCH ADJUSTING NUT	. 8. 1145	PULLEY, GENERATOR	, 7, 1500
LOCK, CLUTCH DRIVE SHAFT BEARING RETAINER LOCK, EXHAUST VALVE SPRING		PULLEY, HYDRAULIC PUMP DRIVE PULLEY, RAW WATER PUMP DRIVE	5. 6400
LOCKNUT, GOVERNOR HIGH SPEED SPRING RETAINER	. 2. 7615	PUMP ASSY., FRESH WATERPUMP ASSY., FUEL	2, 2001
LUBE OIL FILTERLUBRICATING COMPOUND THREAD		PUMP ASSY., HYDRAULIC	12.5001
M		R	
MANIFOLD, EXHAUST		RACK ASSY., INJECTORRECONDITIONING KIT, FRESH WATER PUMP	2. 1170 5. 1002
MISCELLANEOUS SERVICE PARTS - SECTION 1 MISCELLANEOUS SERVICE PARTS - SECTION 2	.12.8801	RECONDITIONING KIT, RAW WATER PUMP .	5. 6025
MISCELLANEOUS SERVICE PARTS - SECTION 5 .	.12.8805	REGULATOR, BREATHER PIPEREPLACEMENT KIT, RAW WATER PUMP SEAL	_
MISCELLANEOUS SERVICE PARTS - SECTION 7 . MISCELLANEOUS SERVICE PARTS-SECTION 4	12.8804	AND IMPELLER	8. 1690
MOTOR ASSY, STARTING	. 7. 3001	RETAINER, CRANKSHAFT PULLEY RETAINER, GOVERNOR HIGH SPEED SPRING	1, 3290

PART NAME	GROUP NO.	PART NAME	GROUP NO.
R		s	
RETAINER, GOVERNOR VARIABLE SPEED SPRING RETAINER, PISTON PIN RING SET, PISTON RING, CLUTCH DRIVING RING, GOVERNOR WEIGHT SHAFT END BEARING SNAP	. 1. 6150 . 1. 6115 . 8, 1018	SPACER, FAN BLADE SPACER, GENERATOR ADJUSTING STRAP SPACER, TURBOCHARGER ROTOR THRUST SPRING, CLUTCH PRESSURE PLATE RETURN SPRING, CLUTCH TOGGLE LEVER SPRING, EXHAUST VALVE	. 7. 1581 . 3. 5035 . 8. 1135 . 8. 1100
RING, INJECTOR HOLE TUBE SEAL	. 5. 6140 . 2. 7380 . 1. 8000A	SPRING, FUEL PUMP VALVE RETAINING SPRING, GOVERNOR HIGH SPEED SPRING, GOVERNOR LOW SPEED SPRING, GOVERNOR VARIABLE SPEED SPRING, GOVERNOR VIELD LINK	. 2. 7550 . 2. 7540 . 2. 7760
ROD, GOVERNOR CONNECTING ROD, PUSH ROLLER SET, CAM FOLLOWER ROTATOR, VALVE ROTOR, FUEL PUMP	. 1. 8180 . 1. 8265 . 1. 8365	SPRING, INJECTOR CONTROL TUBE SPRING, INJECTOR CONTROL TUBE THROTTLE SPRING, INJECTOR PLUNGER SPRING, INJECTOR VALVE	2. 9012 2. 9011 2. 1080 2. 1250
s		SPRING, OIL COOLER BYPASS VALVE SPRING, OIL FILTER BYPASS VALVE SPRING, OIL PRESSURE REGULATOR	. 4. 2486 . 4. 1690
SCREW ASSY., GOVERNOR BUFFER SCREW, GOVERNOR LOW SPEED SPRING ADJUSTING	. 2. 7590	SPRING, PUSH RODSPRING, THROTTLE BOOSTERSTOP, GOVERNOR VARIABLE SPEED SPRING	. 1. 8190 . 2. 7980
SCREW, ROCKER ARM ADJUSTING	. 4. 8002 . 4. 8059	RETAINER STRAINER ASSY, FUEL STRAP, AIR COMPRESSOR MOUNTING BRACKET	2. 3001
SEAL, CRANKSHAFT OIL-FRONT SEAL, CRANKSHAFT OIL-REAR SEAL, EEC GOVERNOR WIRE	. 1, 3060 . 2. 6650	ADJUSTINGSTRAP, GENERATOR ADJUSTINGSUPPORT, ENGINE FRONT	7. 1580 11.1070
SEAL, FRESH WATER PUMP SEAL, FRESH WATER PUMP SHAFT BEARING SEAL, FUEL PUMP OIL	. 5, 1065 . 2, 2070	SUPPORT, ENGINE REAR	11.1100
SEAL, RAW WATER PUMP BEARING SEAL, RAW WATER PUMP SHAFT SEAL, ROTOR ASSY. SHAFT OIL	. 5. 6170 . 3. 5028	TANK, EXPANSION TERMINAL, EEC GOVERNOR MALE THERMOSTAT	2. 6645
SEALANT, RTV SEAT, GOVERNOR LOW SPEED SPRING SEAT, INJECTOR VALVE SPRING SERVICE KIT, INJECTOR	. 2. 7570 . 2. 1255	THERMOSTAT ASSY. TIP ASSY, INJECTOR SPRAY TUBE, AIR COMPRESSOR LUBE OIL DRAIN	5. 2050 2. 1235
SETS, SERVICE (ALL) SHAFT ASSY., FRESH WATER PUMP SHAFT ASSY., GOVERNOR OPERATING	.12.8720 . 5. 1050	TUBE, AIR COMPRESSOR LUBE OIL SUPPLY TUBE, AIR COMPRESSOR WATER INLET TUBE, AIR COMPRESSOR WATER OUTLET	12.4065 12.4085
SHAFT ASSY., GOVERNOR SHUTDOWN SHAFT ASSY., GOVERNOR THROTTLE SHAFT ASSY., ROCKER	. 2. 7095 . 1. 8160	TUBE, CYLINDER HEAD GOVERNOR CONTROL LINK TUBE, CYLINDER HEAD GOVERNOR CONTROL LINK	
SHAFT ASSY., TURBOCHARGER ROTOR SHAFT, CLUTCH DRIVE SHAFT, CLUTCH RELEASE SHAFT, FUEL PUMP DRIVE	. 8. 1670 . 8. 1270	TUBE, EXHAUST MANIFOLD FRESH WATER INLE TUBE, FILTER TO CYLINDER HEAD TUBE, FUEL PUMP TO FILTER	T 5. 3433 2. 5149
SHAFT, FUEL PUMP DRIVE SHAFT, GOVERNOR OPERATING SHAFT, GOVERNOR VARIABLE SPEED SPRING LEVER	. 2. 2089 . 2. 7255	TUBE, FUEL SUPPLY CROSSOVER TUBE, HEAT EXCHANGER DEARATION TUBE, INJECTOR HOLE TUBE, JUNCTION BLOCK TO CYLINDER HEAD	2. 5163 5. 5335 1. 2045 2. 5175
SHAFT, GOVERNOR WEIGHT CARRIER SHAFT, GOVERNOR YIELD SHAFT, INJECTOR CONTROL-MAIN	. 2. 7360 . 2. 7301 . 2. 9006	TUBE, OIL COOLER INLET AND OUTLET OIL TUBE, OIL COOLER WATER OUTLET TUBE, OIL FILTER INLET TUBE, OIL FILTER OUTLET	4. 4190 4. 4270 4. 3001
SHAFT, RAW WATER PUMP SHELL, BREATHER SHELL, CONNECTING ROD BEARING SHELL, CRANKSHAFT MAIN BEARING SHIELD, EXHAUST PORT	. 4. 8055 . 1. 6100 . 1. 3090 . 1. 2048	TUBE, TURBOCHARGER OIL RETURN TUBE, TURBOCHARGER OIL SUPPLY TUBE, TURBOCHARGER WATER RETURN TURBOCHARGER	3. 5505 3. 5500 5. 3269
SHIM, GOVERNOR VARIABLE SPEED SPRING SILENCER, AIR	. 3. 2001	V	
SLEEVE, CLUTCH RELEASE SLEEVE, CRANKSHAFT REAR OIL SEAL SLEEVE, VALVE GUIDE SOLENOID, AIR SHUTOFF OR GOVERNOR	. 1. 3066 . 1. 8325	VALVE ASSY., FUEL PUMP VALVE KIT, INJECTOR VALVE MECHANISM VALVE, EXHAUST	2. 1238 1. 8000
SPACER, CLUTCH DRIVE SHAFT BEARING RETAINER	. 8. 1695	VALVE, INJECTOR CHECK	2. 1200

PART NAME	GROUP NO.
v	
VALVE, INTAKEVALVE, OIL COOLER BYPASS	
VALVE, OIL FILTER BYPASS	. 4. 2485
VALVE, OIL PRESSURE REGULATOR VENTILATION SYSTEM	
w	
WASHER, GOVERNOR THROTTLE SHAFT	
WATER PUMP	. 5. 1000
WEIGHT, GOVERNOR LOW SPEED	2. 7410
WHEEL, TURBOCHARGER COMPRESSOR	. 3. 5036
WIRE ASSY., GENERATOR TO REGULATOR	. 7. 1630
Υ	
YOKE, CLUTCH RELEASE	. 8. 1275



MODEL INDEXES

MODEL DESCRIPTION CHART

4 087-7100

8.2 SERIES NUMBER OF CYLINDERS APPLICATION
DESIGNATION
(SEE BELOW)

BASIC ENGINE ARRANGEMENTS (SEE BELOW) DESIGN VARIATION (SEE BELOW) SPECIFIC MODEL NUMBER

APPLICATION DESIGNATION

408<u>2</u>-8300 Marine 408<u>3</u>-7300 Fan to F/W - Industrial 408<u>7</u>-7300 Fan to F/W - Vehicle

DESIGN VARIATION

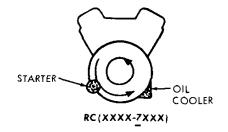
4087 - 7<u>1</u>00 N/A Engine 4087 - 7<u>3</u>00 Turbocharged

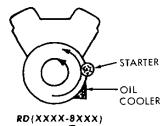
BASIC ENGINE ARRANGEMENTS:

Rotation: R (right) designates rotation viewed from the front of the engine

Type: C-D designates location of starter and oil cooler as viewed from the rear (flywheel) end.

Cylinder Bank: Left and right cylinder banks are determined from rear of engine.





19345

CHART	8V MODELS 4083-7312 THRU 4087-7334
4082-8300	8V MARINE STBD UNIT TURBOCHARGED
4082-8301	8V MARINE PORT UNIT TURBOCHARGED
4083-7100	8V INDUSTRIAL 4-CYCLE
4083-7300	8V INDUSTRIAL 4-CYCLE TURBOCHARGED
4084-7112	8V POWER BASE STAND-BY FIREPUMP
4084-7312	8V POWER BASE STAND-BY FIREPUMP TURBOCHARGED
4087-7100	8V TRUCK 4-CYCLE
4087-7130	8V TRUCK 4-CYCLE 130 H.P.
4087-7145	8V TRUCK 4-CYCLE 130 H.P.
4087-7182	8V TRUCK 4 CYCLE TAIWAN
4087-7300	8V TRUCK 4-CYCLE TURBOCHARGED
4087-7336	8V TRUCK 4 CYCLE TURBOCHARGED
4087-7340	8V TRASIT COACH 4 CYCLE TURBOCHARGED
4087-7355	8V TRUCK 2600 RPM 4 CYCLE TURBOCHARGED

		TYPE NO.					
GROUP NAME	GROUP	MODEL					
GROOF WANTE	NO.	4083- 7312	4083- 7314				
Cylinder Block	1.1000	183	183				
Cylinder Head	1.2000	214	214			1	
Engine Lifter Bracket	1.2000A	214	214				
Crankshaft	1.3000	74	74				
Crankshaft Front Cover	1.3000A	133	133			<u> </u>	
Crankshaft Pulley	1.3000C	370	370				
Flywheel	1.4000A	964	968				
Flywheel Housing	1.5000A	597	598				
Connecting Rod and Piston	1.6000	189	189				
Camshaft and Gear Train	1.7000	241	241				
Valve Operating Mechanism	1.8000	155	155			1	
Rocker Cover	1.8000A	455	455			Ī	
Fuel Injector	2.1000A	174	174				
Fuel Pump	2.2000	187	187			<u> </u>	
Fuel Filter	2.3000A	684	684				
Fuel Lines	2.5000A	1548	1548				
Governor, Mechanical	2.7000A	1601	1601				
Injector Controls	2.9000	297	297				
Air Cleaner	3.1000A	365	365				
Air Inlet Housing	3.3000A	626	626				
Turbocharger	3.5000A	443	443				
Oil Pump	4.1000A	151	151				
Oil Distribution System	4.1000B	455	455				
Oil Pressure Regulator	4.1000C	25	25				
Oil Filter	4.2000A	347	347				
Oil Cooler	4.4000A	868	868				
Oil Filler	4.5000A	140	140				
Dipstick	4.6000A	946+	946+				
Oil Pan	4.7000A	679	679				
Ventilating System	4.8000A	808	808				
Fresh Water Pump	5.1000	210	210				
Thermostat	5.2000B	292	292				
Water Connections	5.3000B	361	361				
Exhaust Manifold	6.1000A	516	516				
Starting Motor	7.3000A	311	311				
Shut-Off	7.4000C	1014	1014				
Engine Mounts	11.1000A	647	647			<u> </u>	

⁺ Thru 8G21146 & Eff. w/8G21147 use Type 947

	TYPE NO.							
GROUP NAME	GROUP NO.	MODEL						
	NO.	4087 -7101	4087 - 7102	4087 - 7103	4087- 7104	4087- 7105	4087- 7106	
Cylinder Block	1.1000	183	183	183	183	183	183	
Cylinder Head	1.2000	153	153	153	153	153	153	
Engine Lifter Bracket	1.2000A	214	214	214	214	214	214	
Crankshaft	1.3000	74	74	74	74	74	74	
Crankshaft Front Cover	1.3000A	133	133	133	133	133	133	
Crankshaft Pulley	1.3000C	370	370	370	370	370	370	
Flywheel	1.4000A	964	967	964	967	964	967	
Flywheel Housing	1.5000A	597	598	597	598	597	598	
Connecting Rod and Piston	1.6000	188	188	188	188	188	188	
Camshaft and Gear Train	1.7000	240	240	240	240	240	240	
Valve Operating Mechanism	1.8000	155	155	155	155	155	155	
Rocker Cover	1.8000A	455	455	455	455	455	455	
Fuel Injector	2.1000A	173	173	173	173	173	173	
Fuel Pump	2.2000	187	187	187	187	187	187	
Fuel Filter	2.3000A	684	684	684	684	684	684	
Fuel Lines	2.5000A	1548	1548	1548	1548	1548	1548	
Governor, Mechanical	2.7000A	1601	1601	1601	1601	1601	1601	
Injector Controls	2.9000	297	297	297	297	297	297	
Air Cleaner	3.1000A	366	366	366	366	366	366	
Air Inlet Housing	3.3000A	626	626	626	626	626	626	
Oil Pump	4.1000A	151	151	151	151	151	151	
Oil Distribution System	4.1000B	455	455	455	455	455	455	
Oil Pressure Regulator	4.1000C	25	25	25	25	25	25	
Oil Filter	4.2000A	347	347	347	347	347	347	
Oil Cooler	4.4000A	868	868	868	868	868	868	
Oil Filler	4.5000A	140	140	140	140	140	140	
Dipstick	4.6000A	947	947	946*	946*	947	947	
Oil Pan	4.7000A	679	679	679	679	679	679	
Ventilating System	4.8000A	807	807	808	808	807	807	
Fresh Water Pump	5.1000	212	212	210	210	212	212	
Thermostat	5.2000B	292	292	292	292	292	292	
Water Connections	5.3000B	361	361	361	361	361	361	
Exhaust Manifold	6.1000A	517	517	515	515	517	517	
Starting Motor	7.3000A	NONE	NONE	NONE	NONE	NONE	NON	
Shut-Off	7.4000C	1014	1014	1014	1014	1014	1014	
Engine Mounts	11.1000A	647#	647#	647	647	647#	647	

^{*}Thru 8G13522 & Eff. W/8G13523 use Type 947 #Thru 8G15934 & Eff. W/8G15935 use Type 656

				TYPE	NO.		
GROUP NAME	GROUP NO.			MOI	DEL		
	NO.	4087- 7107	4087- 7108	4087- 7109	40 87- 7110	4087- 7111	4087- 7112
Cylinder Block	1.1000	183	183	183	183	183	183
Cylinder Head	1.2000	153	153	153	153	153	153
Engine Lifter Bracket	1.2000A	214	214	214	214	214	214
Crankshaft	1.3000	74	74	74	74	74	74
Crankshaft Front Cover	1.3000A	133	133	133	133	133	133
Crankshaft Pulley	1.3000C	370	370	370	370	370	370
Flywheel	1.4000A	964	967	968	968	967	964
Flywheel Housing	1.5000A	597	598	597	597	598	597
Connecting Rod and Piston	1.6000	188	188	188	188	188	188
Camshaft and Gear Train	1.7000	240	240	240	240	240	240
Valve Operating Mechanism	1.8000	155	155	155	155	155	155
Rocker Cover	1.8000A	455	455	455	455	455	455
Fuel Injector	2.1000A	173	173	173	173	173	173
Fuel Pump	2.2000	187	187	187	187	187	187
Fuel Filter	2.3000A	684	684	684	684	684	684
Fuel Lines	2.5000A	1548	1548	1548	1548	1548	1548
Governor, Mechanical	2.7000A	1601	1601	1601	1601	1601	1601
Injector Controls	2.9000	297	297	297	297	297	297
Air Cleaner	3.1000A	366	366	366	366	366	366
Air Inlet Housing	3.3000A	626	626	626	626	626	626
Oil Pump	4.1000A	151	151	151	151	151	151
Oil Distribution System	4.1000B	455	455	455	455	455	455
Oil Pressure Regulator	4.1000C	25	25	25	25	25	25
Oil Filter	4.2000A	347	347	347	347	347	347
Oil Cooler	4.4000A	868	868	868	868	868	868
Oil Filler	4.5000A	140	140	140	140	140	140
Dipstick	4.6000A	946*	946*	946*	946*	947	947
Oil Pan	4.7000A	679	679	679	679	679	679
Ventilating System	4.8000A	808	808	808	808	808	807
Fresh Water Pump	5.1000	210	210	210	210	210	212
Thermostat	5.2000B	292	292	292	292	292	292
Water Connections	5.3000B	361	361	361	361	361	361
Exhaust Manifold	6.1000A	515	515	515	515	517	517
Starting Motor	7.3000A	NONE	NONE	NONE	NONE	311	311
Shut-Off	7.4000C	1014	1014	1014	1014	1014	1014
*Thru 9C13E33 % Est W/9C13E33	11.1000A	647	647	647	647	647	647

^{*}Thru 8G13522 & Eff. W/8G13523 use Type 947

		TYPE NO.					
GROUP NAME	GROUP NO.			MOE	DEL		
	NO.	4087- 7113	4087- 7114	4087- 7115	4087- 7116	4087- 7117	4087 -7118
Cylinder Block	1.1000	183	183	183	183	183	183
Cylinder Head	1.2000	153	153	153	153	153	153
Engine Lifter Bracket	1.2000A	214	214	214	214	214	214
Crankshaft	1.3000	74	74	74	74	74	74
Crankshaft Front Cover	1.3000A	133	133	133	133	133	133
Crankshaft Pulley	1.3000C	370	370	370	370	370	370
Flywheel	1.4000A	967	964	967	968	964	967
Flywheel Housing	1.5000A	598	597	598	597	597	598
Connecting Rod and Piston	1.6000	188	188	188	188	188	188
Camshaft and Gear Train	1.7000	240	240	240	240	240	240
Valve Operating Mechanism	1.8000	155	155	155	155	155	155
Rocker Cover	1.8000A	455	455	455	455	455	455
Fuel Injector	2.1000A	173	173	173	173	173	173
Fuel Pump	2.2000	187	187	187	187	187	187
Fuel Filter	2.3000A	684	684	684	684	684	684
Fuel Lines	2.5000A	1548	1548	1548	1548	1548	1548
Governor, Mechanical	2.7000A	1601	1601	1601	1601	1601=	1601
Injector Controls	2.9000	297	297	297	297	297	297
Air Cleaner	3.1000A	366	366	366	366	366	366
Air Inlet Housing	3.3000A	626	626	626	626	626	626
Oil Pump	4.1000A	151	151	151	151	151	151
Oil Distribution System	4.1000B	455	455	455	455	455	455
Oil Pressure Regulator	4.1000C	25	25	25	25	25	25
Oil Filter	4.2000A	347	347	347	347	347	347
Oil Cooler	4.4000A	868	868	868	868	868	868
Oil Filler	4.5000A	140	140	140	140	140	140
Dipstick	4.6000A	947	946+	946+	946+	947	947
Oil Pan	4.7000A	679	679	679	679	679	679
Ventilating System	4.8000A	807	778	808	808	807	807
Fresh Water Pump	5.1000	212	210	210	210	212	212
Thermostat	5.2000B	292	292	292	292	292	292
Water Connections	5.3000B	361	361	361	361	361	361
Exhaust Manifold	6.1000A	517	515	515	515	517	517
Starting Motor	7.3000A	311	311	311	311	NONE	NON
Shut-Off	7.4000C	1014	1014	1014	1014	1014	1014
Engine Mounts	11.1000A	647	647	647	647	647#	647

[≈] Thru 8G26798 & Eff. W/8G26799 use Type 1731

⁺ Thru 8G21146 & Eff. W/8G21147 use Type 947

[#] Thru 8G15934 & Eff. W/8G15935 use Type 656

		TYPE NO.						
GROUP NAME	GROUP NO.	MODEL						
	NO.	4087 -7119	4087 -7120	4087- 7121	4087- 7122	4087- 7123 183 153 214 74 133 370 968 597 188 240 155 455 173 187 684 1548 1601 297 366 626 151 455 25 347 868 140 947 679 807 212 292 361 517 NONE 1014		
Cylinder Block	1.1000	183	183	183	183	183		
Cylinder Head	1.2000	153	153	153	153	153		
Engine Lifter Bracket	1.2000A	214	214	214	214	214		
Crankshaft	1.3000	74	74	74	74	74		
Crankshaft Front Cover	1.3000A	133	133	133	133	133		
Crankshaft Pulley	1.3000C	370	370	370	370	370	ļ	
Flywheel	1.4000A	964	967	968	968	968		
Flywheel Housing	1.5000A	597	598	597	597	597		
Connecting Rod and Piston	1.6000	188	188	188	188	188		
Camshaft and Gear Train	1.7000	240	240	240	240	240		
Valve Operating Mechanism	1.8000	155	155	155	155	155		
Rocker Cover	1.8000A	455	455	455	455	455		
Fuel Injector	2.1000A	173	173	173	173	173		
Fuel Pump	2.2000	187	187	187	187	187		
Fuel Filter	2,3000A	684	684	684	684	684		
Fuel Lines	2.5000A	1548	1548	1548	1548	1548		
Governor, Mechanical	2.7000A	1601=	1601=	1601=	1601	1601		
Injector Controls	2.9000	297	297	297	297			
Air Cleaner	3.1000A	366	366	366	366	366		
Air Inlet Housing	3.3000A	626	626	626	626	626		
Oil Pump	4.1000A	151	151	151	151	151		
Oil Distribution System	4.1000B	455	455	455	455	455		
Oil Pressure Regulator	4.1000C	25	25	25	25	25		
Oil Filter	4.2000A	347	347	347	347	347		
Oil Cooler	4.4000A	868	868	868	868	868		
Oil Filler	4.5000A	140	140	140	140	140		
Dipstick	4.6000A	946*	946*	946*	947	947		
Oil Pan	4.7000A	679	679	679	679	679	-	
Ventilating System	4.8000A	808	808	808	807			
Fresh Water Pump	5.1000	210	210	210	212	212	· · · · · · · · · · · · · · · · · · ·	
Thermostat	5.2000B	292	292	292	292	292		
Water Connections	5.3000B	361	361	361	361	361		
Exhaust Manifold	6.1000A	515	515	515	517			
Starting Motor	7.3000A	NONE	NONE	NONE	NONE			
Shut-Off	7.4000C	1014	1014	1014	1014			
Engine Mounts	11.1000A	647	647	647	647#	647#	· · · · · · · · · · · · · · · · · · ·	

^{*} Thru 8G13522 & Eff. W/8G13523 use Type 947 # Thru 8G15934 & Eff. W/8G15935 use Type 656

⁼ Thru 8G26798 & Eff. W/8G26799 use Type 1731

		TYPE NO.						
	GROUP	MODEL						
GROUP NAME	NO.	4087- 7301	4087- 7302	4087- 7303	4087- 7304	4087- 7305	4087- 7306	
Cylinder Block	1.1000	183	183	183	183	183	183	
Cylinder Head	1.2000	214	214	214	214	214	214	
Engine Lifter Bracket	1.2000A	214	214	214	214	214	214	
Crankshaft	1.3000	74	74	74	74	74	74	
Crankshaft Front Cover	1.3000A	133	133	133	133	133	133	
Crankshaft Pulley	1.3000C	370	370	370	370	370	370	
Flywheel	1.4000A	964	967	968	964	967	968	
Flywheel Housing	1.5000A	597	598	597	597	598	597	
Connecting Rod and Piston	1.6000	189	189	189	189	189	189	
Camshaft and Gear Train	1,7000	241	241	241	241	241	241	
Valve Operating Mechanism	1.8000	155	155	155	155	155	155	
Rocker Cover	1.8000A	455	455	455	455	455	455	
Fuel Injector	2.1000A	174	174	174	174	174	174	
Fuel Pump	2.2000	187	187	187	187	187	187	
Fuel Filter	2.3000A	684	684	684	684	684	684	
Fuel Lines	2.5000A	1548	1548	1548	1548	1548	1548	
Governor, Mechanical	2.7000A	1601	1601	1601	1601	1601	1601	
Injector Controls	2.9000	297	297	297	297	297	297	
Air Cleaner	3.1000A	365	365	365	365	365	365	
Air Inlet Housing	3.3000A	626	626	626	626	626	626	
Turbocharger	3.5000A	443	443	443	443	443	443_	
Oil Pump	4.1000A	151	151	151	151	151	151	
Oil Distribution System	4.1000B	455	455	455	455	455	455	
Oil Pressure Regulator	4.1000C	25	25	25	25	25	25	
Oil Filter	4.2000A	347	347	347	347	347	347	
Oil Cooler	4.4000A	868	868	868	868	868	868	
Oil Filler	4.5000A	140	140	140	140	140	140	
Dipstick	4.6000A	947	947	947	946*	946*	946*	
Oil Pan	4.7000A	679	679	679	679	679	679	
Ventilating System	4.8000A	807	807	807	808	808	808	
Fresh Water Pump	5.1000	212	212	212	210	210	210	
Thermostat	5.2000B	292	292	292	292	292	292	
Water Connections	5.3000B	361	361	361	361	361	361	
Exhaust Manifold	6.1000A	516	516	516	516	516	516	
Starting Motor	7.3000A	NONE	NONE	NONE	NONE	NONE	NONE	
Shut-Off	7.4000C	1014	1014	1014	1014	1014	1014	
Engine Mounts	11.1000A	647#	647#	647#	647	647	647	

^{*} Thru 8G13522 & Eff. W/8G13523 use Type 947

Thru 8G15934 & Eff. W/8G15935 use Type 656

	T	TYPE NO.						
00015 11415	GROUP	MODEL						
GROUP NAME	NO.	4087- 7307	4087- 7308	4087- 7309	4087- 7310	4087- 7311	4087- 7312	
Cylinder Block	1.1000	183	183	183	183	183	183	
Cylinder Head	1.2000	214	214	214	214	214	214	
Engine Lifter Bracket	1.2000A	214	214	214	214	214	214	
Crankshaft	1.3000	74	74	74	74	74	74	
Crankshaft Front Cover	1.3000A	133	133	133	133	133	133	
Crankshaft Pulley	1.3000C	370	370	370	370	370	370	
Flywheel	1.4000A	964	967	964	967	968	964	
Flywheel Housing	1.5000A	597	598	597	598	597	597	
Connecting Rod and Piston	1.6000	189	189	189	189	189	189	
Camshaft and Gear Train	1.7000	241	241	241	241	241	241	
Valve Operating Mechanism	1.8000	155	155	155	155	155	155	
Rocker Cover	1.8000A	455	455	455	455	455	455	
Fuel Injector	2.1000A	173	174	174	174	174	174	
Fuel Pump	2.2000	187	187	187	187	187	187	
Fuel Filter	2.3000A	684	684	684	684	684	684	
Fuel Lines	2.5000A	1548	1548	1548	1548	1548	1548	
Governor, Mechanical	2.7000A	1601=	1601	1601	1601	1601	1601	
Injector Controls	2.9000	297	297	297	297	297	297	
Air Cleaner	3.1000A	365	365	365	365	365	365	
Air Inlet Housing	3.3000A	626	626	626	626	626	626	
Turbocharger	3.5000A	443	443	443	443	443	443	
Oil Pump	4.1000A	151	151	151	151	151	151	
Oil Distribution System	4.1000B	455	455	455	455	455	455	
Oil Pressure Regulator	4.1000C	25	25	25	25	25	25	
Oil Filter	4.2000A	347	347	347	347	347	347	
Oil Cooler	4.4000A	868	868	868	868	868	868	
Oil Filler	4.5000A	140	140	140	140	140	140	
Dipstick	4.6000A	947	947	947	947	947	946+	
Oil Pan	4.7000A	679	679	679	679	679	679	
Ventilating System	4.8000A	807	808	807	807	807	808	
Fresh Water Pump	5.1000	212	210	212	212	212	210	
Thermostat	5.2000B	292	292	292	292	292	292	
Water Connections	5.3000B	361	361	361	361	361	361	
Exhaust Manifold	6.1000A	516	516	516	516	516	516	
Starting Motor	7.3000A	NONE	NONE	311	311	311	311	
Shut-Off	7.4000C	1014	1014	1014	1014	1014	1014	
Engine Mounts	11.1000A	647#	647	647	647	647	647	

⁼ Thru 8G26798 & Eff. W/8G26799 use Type 1731

⁺ Thru 8G21146 & Eff. W/8G21147 use Type 947

[#] Thru 8G15934 & Eff. W/8G15935 use Type 656

		TYPE NO.						
OROLID NAME	GROUP	MODEL						
GROUP NAME	NO.	4087- 7313	4087- 7314	4087- 7315	4087- 7316	4087- 7317	4087- 7318	
Cylinder Block	1,1000	183	183	183	183	183	183	
Cylinder Head	1.2000	214	214	214	214	214	214	
Engine Lifter Bracket	1.2000A	214	214	214	214	214	214	
Crankshaft	1,3000	74	74	74	74	74	74	
Crankshaft Front Cover	1.3000A	133	133	133	133	133	133	
Crankshaft Pulley	1.3000C	370	370	370	370	370	370	
Flywheel	1.4000A	967	968	967	967	967	968	
Flywheel Housing	1,5000A	598	597	598	598	598	597	
Connecting Rod and Piston	1.6000	189	189	189	189	189	189	
Camshaft and Gear Train	1.7000	241	241	241	241	241	241	
Valve Operating Mechanism	1.8000	155	155	155	155	155	155	
Rocker Cover	1.8000A	455	455	455	455	455	455	
Fuel Injector	2,1000A	174	174	174	173	173	173	
Fuel Pump	2.2000	187	187	187	187	187	187	
Fuel Filter	2.3000A	684	684	684	684	684	684	
Fuel Lines	2.5000A	1548	1548	1548	1548	1548	1548	
Governor, Mechanical	2.7000A	1601	1601	1601	1601=	1601=	1601=	
Injector Controls	2.9000	297	297	297	297	297	297	
Air Cleaner	3.1000A	365	365	365	365	365	365	
Air Inlet Housing	3.3000A	626	626	626	626	626	626	
Turbocharger	3.5000A	443	443	443	443	443	433	
Oil Pump	4.1000A	151	151	151	151	151	151	
Oil Distribution System	4.1000B	455	455	455	455	455	455	
Oil Pressure Regulator	4.1000C	25	25	25	25	25	25	
Oil Filter	4.2000A	347	347	347	347	347	347	
Oil Cooler	4.4000A	868	868	868	868	868	868	
Qil Filler	4.5000A	140	140	140	140	140	140	
Dipstick	4.6000A	946+	946+	947	947	946*	946*	
Oil Pan	4.7000A	679	679	679	679	679	679	
Ventilating System	4.8000A	808	808	808	807	808	808	
Fresh Water Pump	5.1000	210	210	210	212	210	210	
Thermostat	5.2000B	292	292	292	292	292	292	
Water Connections	5.3000B	361	361	361	361	361	361	
Exhaust Manifold	6.1000A	516	516	516	516	516	516	
Starting Motor	7.3000A	311	311	311	NONE	NONE	NON	
Shut-Off	7.4000C	1014	1014	1014	1014	1014	1014	
Engine Mounts	11.1000A	647	647	647	647	647	647	

^{*} Thru 8G13522 & Eff. W/8G13523 use Type 947

⁺ Thru 8G21146 & Eff. W/8G21147 Use Type 947

⁼ Thru 8G26798 & Eff. W/8G26799 use Type 1731

		TYPE NO.						
GROUP NAME	GROUP	JP MODEL						
GROOF NAME	NO.	4087- 7319	4087- 7320	4087- 7321	4087- 7322	4087- 7323	4087- 7324	
Cylinder Block	1.1000	183	183	183	183	183	183	
Cylinder Head	1.2000	214	214	214	214	214	214	
Engine Lifter Bracket	1.2000A	214	214	214	214	214	214	
Crankshaft	1.3000	74	74	74	74	74	74	
Crankshaft Front Cover	1.3000A	133	133	133	133	133	133	
Crankshaft Pulley	1.3000C	370	370	370	370	370	370	
Flywheel	1.4000A	964	967	968	964	967	968	
Flywheel Housing	1.5000A	597	598	597	597	598	597	
Connecting Rod and Piston	1.6000	189	189	189	189	189	189	
Camshaft and Gear Train	1.7000	241	241	241	241	241	241	
Valve Operating Mechanism	1.8000	155	155	155	155	155	155	
Rocker Cover	1.8000A	455	455	455	455	455	455	
Fuel Injector	2,1000A	193	193	193	193	193	193	
Fuel Pump	2.2000	187	187	187	187	187	187	
Fuel Filter	2.3000A	684	684	684	684	684	684	
Fuel Lines	2.5000A	1548	1548	1548	1548	1548	1548	
Governor, Mechanical	2.7000A	1601	1601	1601	1601	1601	1601	
Injector Controls	2.9000	297	297	297	297	297	297	
Air Cleaner	3.1000A	365	365	365	365	365	365	
Air Inlet Housing	3.3000A	626	626	626	626	626	626	
Turbocharger	3.5000A	443	443	443	443	443	443	
Oil Pump	4.1000A	151	151	151	151	151	151	
Oil Distribution System	4.1000B	455	455	455	455	455	455	
Oil Pressure Regulator	4.1000C	25	25	25	25	25	25	
Oil Filter	4.2000A	347	347	347	347	347	347	
Oil Cooler	4.4000A	868	868	868	868	868	868	
Oil Filler	4.5000A	140	140	140	140	140	140	
Dipstick	4.6000A	947	947	947	946*	946*	946*	
Oil Pan	4.7000A	679	679	679	679	679	679	
Ventilating System	4.8000A	807	807	807	808	808	808	
Fresh Water Pump	5.1000	212	212	212	210	210	210	
Thermostat	5.2000B	292	292	292	292	292	292	
Water Connections	5.3000B	361	361	361	361	361	361	
Exhaust Manifold	6.1000A	516	516	516	516	516	516	
Starting Motor	7.3000A	NONE	NONE	NONE	NONE	NONE	NONE	
Shut-Off	7.4000C	1014	1014	1014	1014	1014	1014	
Engine Mounts	11.1000A	647#	647#	647#	647	647	647	

^{*}Thru 8G13522 & Eff. W/8G13523 use Type 947

[#] Thru 8G15934 & Eff. W/8G15935 use Type 656

		TYPE NO.						
	GROUP	MODEL						
GROUP NAME	NO.	4087- 7325	4087- 7326	4087- 7327	4087- 7328	4087 - 7329	4087- 7330	
Cylinder Block	1.1000	183	183	183	183	183	183	
Cylinder Head	1.2000	214	214	214	214	214	214	
Engine Lifter Bracket	1.2000A	214	214	214	214	214	214	
Crankshaft	1.3000	74	74	74	74	74	74	
Crankshaft Front Cover	1.3000A	133	133	133	133	133	133	
Crankshaft Pulley	1.3000C	370	370	370	370	370	370	
Flywheel	1.4000A	967	964	967	968	964	967	
Flywheel Housing	1.5000A	598	597	598	597	597	598	
Connecting Rod and Piston	1.6000	189	189	189	189	189	189	
Camshaft and Gear Train	1.7000	241	241	241	241	241	241	
Valve Operating Mechanism	1.8000	155	155	155	155	155	155	
Rocker Cover	1.8000A	455	455	455	455	455	455	
Fuel Injector	2.1000A	193	193	193	193	193	193	
Fuel Pump	2.2000	187	187	187	187	187	187	
Fuel Filter	2.3000A	684	684	684	684	684	684	
Fuel Lines	2.5000A	1548	1548	1548	1548	1548	1548	
Governor, Mechanical	2.7000A	1601	1601	1601	1601	1601	1601	
Injector Controls	2.9000	297	297	297	297	297	297	
Air Cleaner	3.1000A	365	365	365	365	365	365	
Air Inlet Housing	3.3000A	626	626	626	626	626	626	
Turbocharger	3.5000A	443	443	443	443	443	443	
Oil Pump	4.1000A	151	151	151	151	151	151	
Oil Distribution System	4.1000B	455	455	455	455	455	455	
Oil Pressure Regulator	4.1000C	25	25	25	25	25	25	
Oil Filter	4.2000A	347	347	347	347	347	347	
Oil Cooler	4.4000A	868	868	868	868	868	868	
Oil Filler	4.5000A	140	140	140	140	140	140	
Dipstick	4.6000A	947	947	947	947	946+	946-	
Oil Pan	4.7000A	679	679	679	679	679	679	
Ventilating System	4.8000A	808	807	807	807	808	808	
Fresh Water Pump	5.1000	210	212	212	212	210	210	
Thermostat	5.2000B	292	292	292	292	292	292	
Water Connections	5.3000B	361	361	361	361	361	361	
Exhaust Manifold	6.1000A	516	516	516	516	516	516	
Starting Motor	7.3000A	NONE	311	311	311	311	311	
Shut-Off	7.4000C	1014	1014	1014	1014	1014	1014	
Engine Mounts	11.1000A	647	647	647	647	647	647	

⁺ Thru 8G21146 & Eff. W/8G21147 use Type 947

		TYPE NO.					
GROUP NAME	GROUP	MODEL					
GROOF WARE	NO.	4087- 7331	4087- 7332	4087- 7333	4087- 7334		
Cylinder Block	1.1000	183	183	183	183		
Cylinder Head	1.2000	214	214	214	214		
Engine Lifter Bracket	1.2000A	214	214	214	214		
Crankshaft	1.3000	74	74	74	74	T	
Crankshaft Front Cover	1.3000A	133	133	133	133	1	
Crankshaft Pulley	1.3000C	370	370	370	370		1
Flywheel	1.4000A	968	967	964	968	1	1
Flywheel Housing	1.5000A	597	598	597	597		1
Connecting Rod and Piston	1.6000	189	189	189	189		†
Camshaft and Gear Train	1.7000	241	241	241	241		
Valve Operating Mechanism	1.8000	155	155	155	155		
Rocker Cover	1.8000A	455	455	455	455		1
Fuel Injector	2.1000A	193	193	173	173		
Fuel Pump	2.2000	187	187	187	187		
Fuel Filter	2.3000A	684	684	684	684		· · · · · ·
Fuel Lines	2.5000A	1548	1548	1548	1548		<u> </u>
Governor, Mechanical	2.7000A	1601	1601	1601=	1601=	<u> </u>	<u> </u>
Injector Controls	2.9000	297	297	297	297		j
Air Cleaner	3.1000A	365	365	365	365		
Air Inlet Housing	3.3000A	626	626	626	626		
Turbocharger	3.5000A	443	443	443	443		
Oil Pump	4.1000A	151	151	151	151		
Oil Distribution System	4.1000B	455	455	455	455		
Oil Pressure Regulator	4.1000C	25	25	25	25		
Oil Filter	4.2000A	347	347	347	347		
Oil Cooler	4.4000A	868	868	868	868		
Oil Filler	4.5000A	140	140	140	140		
Dipstick	4.6000A	946+	947	946*	947		
Oil Pan	4.7000A	679	679	679	679		
Ventilating System	4.8000A	808	808	808	807		
Fresh Water Pump	5.1000	210	210	210	212		
Thermostat	5.2000B	292	292	292	292		
Water Connections	5.3000B	361	361	361	361		
Exhaust Manifold	6.1000A	516	516	516	516		
Starting Motor	7.3000A	311	311	NONE	NONE		
Shut-Off	7.4000C	1014	1014	1014	1014		
Engine Mounts	11.1000A	647	647	647	647#		

^{*} Thru 8G13522 & Eff. W/8G13523 use Type 947

^{*} Thru 8G21146 & Eff. W/8G21147 use Type 947

⁼ Thru 8G26798 & Eff. W/8G26799 use Type 1731 # Thru 8G15934 & Eff. W/8G15935 use Type 656

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK		
	1.1000	183
CYLINDER HEAD THRU 8G-116263		155
CYLINDER HEAD EFF. WITH 8G-116264	1.2000	170
	1.2000A	225
	1.3000	74
CRANKSHAFT FRONT COVER THRU 8G-68987 CRANKSHAFT FRONT COVER EFF. WITH 8G-68988		137
CRANKSHAFI FRONT COVER EFF. WITH 6G-08988	1.3000A	142
CRANKSHAFT PULLEY FLYWHEFI	1,3000C	370
	1.4000A	1022
	1,5000A	638
FLYWHEEL HOUSING ADAPTOR	1.5000B	45
CONNECTING ROD AND PISTON		189
MALVE ODERATING MECHANICA TURN OF TOARS	1.7000	241
VALVE OPERATING MECHANISM SEE WITH DC 79.460	1.8000	155
VALVE OPERATING MECHANISM EFF. WITH 8G-78169 ROCKER COVER THRU 8G-62898	1.8000	214
ROCKER COVER THRU 8G-62898 ROCKER COVER EFF. WITH 8G-62899 AND THRU 8G-116263	1.8000A	455
ROCKER COVER EFF. WITH 8G-116264		498
FUEL INJECTOR	1.8000A	523
FUEL PUMP		200
CUEL EUTED	2.2000	200
	2.3000A	804
MECHANICAL COVERNOR	2.5000A	1647
	2.7000A	1878
AIR SILENCER	2.9000	297
AIR INLET HOUSING	3.2000A	59,
		626
	3.5000A	694
OIL DISTRIBUTION SYSTEM	4.1000A 4.1000B	151
OIL PRESSURE REGULATOR	4.10006	455
OIL FILTER	4.10000	25
OIL FILTER LINES	4.2000A	453
OIL COOLER	4.3000A	195
OIL FILLER CAP THRU 8G-116263	4.4000A	983
OIL FILLER CAP EFF. WITH 8G-116264	4.5000A	55
DIPSTICK	4.5000A	164 946
OIL PAN	4 70004	724
VENTILATING SYSTEM	4.7000A	851
	5.1000	237
THERMOSTAL	5.1000 5.2000B	315
WATER CONNECTIONS	5.3000B	388
HEAT EXCHANGER	5.5000B	495
NAVY WATER PUMP	5.6000A	99
EXHAUST MANIFOLD	6 10004	547
BATTERY CHARGING GENERATOR	7.1000A	2130
STARTING MOTOR	7.3000A	343
5hU1-UFF	7.4000C	1014
REVERSE AND REDUCTION GEAR	9 10004	1076
ENGINE MOUNTING	1.1000A	668

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	183
CYLINDER BLOCK		155
CYLINDER HEAD EFF. WITH 8G-116264	1.2000	170
ENGINE LIFTER BRACKET	1.2000A	225
	1,3000	74
	1,3000A	137
CRANKSHAFT FRONT COVER EFF. WITH 8G-68988	1.3000A	142
CRANKSHAFT PULLEY	1,3000C	370
FLYWHEEL	1,4000A	1022
FLYWHEEL HOUSING	1.5000A	638
FLYWHEEL HOUSING ADAPTOR	1.5000B	45
CONNECTING ROD AND PISTON		189
CAMCHAET AND GEAR TRAIN	1.7000	241
VALVE OPERATING MECHANISM THRU 8G.78168	1.8000	155
VALVE OPERATING MECHANISM EFF. WITH 8G-78169	1.8000	214
ROCKER COVER THRU 8G-62898	1.8000A	455
BOCKER COVER FEE WITH 8G-62899 AND THRU 8G-116263	1.8000A	498
ROCKER COVER EFF. WITH 8G-116264	1.8000A	523
ELEL IN LECTOR	2.1000A	200
FUEL PUMP	2.2000	200
ELIEL ELI TER	_	804
EHELLINES	2.5000A	1647 1878
MECHANICAL GOVERNOR	2.7000A	297
INJECTOR CONTROLS		60
AIR SILENCER		626
AIR INLET HOUSING		693
TURBOCHARGER		151
OIL PUMP		455
OIL DISTRIBUTION SYSTEM		25
OIL PRESSORE REGOLATOR CONTROL OF THE PRESSOR OF THE P		453
OIL FILLER		195
- OIL FILIER LINES	4.4000A	983
OIL COOLER		55
OIL FILLER CAP EFF. WITH 8G-116264	4.5000A	164
DIPSTICK	4.6000A	947
OIL PAN	4.7000A	724
VENTILATING SYSTEM	4.8000A	848
FRESH WATER PUMP		237
THERMOSTAT		315
WATER CONNECTIONS	5.3000B	389
HEAT EXCHANGER	5.5000A	495
PAW WATER PLIMP	· · · · · · · · · · · · · · · · · · ·	99
EXHAUST MANIFOLD	6.1000A	547
RATTERY CHARGING GENERATOR	7.1000A	2130 343
STARTING MOTOR	7.3000A	1014
CHUT OFF	7.4000C 9.1000A	1076
REVERSE AND REDUCTION GEAR		668
ENGINE MOUNTING	11.1000A	400

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1 1000	183
CYLINDER HEAD THRU 8G-115921	1.1000	153
CYLINDER HEAD EFF. WITH 8G-115922	1.2000	169
ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL	1.2000	214
CRANKSHAFT	1.20007	74
CRANKSHAFT FRONT COVER THRU 8G54092	1.3000A	133
CRANKSHAFT FRONT COVER EFF. WITH 8G54093 AND THRU 8G81675	1.3000A	137
CRANKSHAFT FRONT COVER EFF. WITH 8G81676	1.3000A	143
CRANKSHAFT PULLEY STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL	1.3000C	370
FLYWHEEL	1.00000 1.4000A	964
FLYWHEEL HOUSING		597
CONNECTING ROD AND PISTON	1.6000	188
CAMSHAFT AND GEAR TRAIN	1 7000	240
VALVE OPERATING MECHANISM THRU 8G78168	1.8000	155
VALVE OPERATING MECHANISM EFF. WITH 8G78169	1.8000	214
ROCKER COVER THRU 8G-62898	1 8000A	455
ROCKER COVER EFF. WITH 8G-62899 AND THRU 8G-115921	1.80004	498
ROCKER COVER EFF. WITH 8G-115922	1.8000A	523
FUEL INJECTOR	2.1000A	173
FUEL PUMP THRU 8G-78165	2.2000	187
FUEL PUMP EFF. WITH 8G-78166	2.2000	198
FUEL FILTER THRU 8G54092	2 3000A	684
FUEL FILTER EFF. WITH 8G54093	2.3000A	792
FUEL LINES THRU 8G54092	2.5000A	1548
FUEL LINES EFF. WITH 8G54093 AND THRU 8G81675	2.5000A	1614
FUEL LINES EFF. WITH 8G81676 STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL	2.5000A	1644
	2.5000A	1644
MECHANICAL GOVERNOR INJECTOR CONTROLS	2.7000A	1876
AIR CLEANING CTD FOUND ODIOD TO BEING GUICE		297
AIR CLEANER	3.1000A	366
AIR INLET HOUSING	3.1000A	372 626
OIL PUMP	4.1000A	151
OIL DISTRIBUTION SYSTEM	4.1000A	455
OIL PRESSURE REGULATOR	4 1000C	25
OIL FILTER THRU 8G102384	4.20004	347
OIL FILTER EFF. WITH 8G102385	4 20004	464
OIL COOLER STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL	4.4000A	868
OIL COOLER	4 40004	1079
OIL FILLER CAP THRU 8G-115921	4 50004	55
OIL FILLER CAP EFF, WITH 8G-115922	4.5000A	164
DIPSTICK STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LARFI	4 6000A	947
OIL PAN	4.7000A	718
VENTILATING SYSTEM	4.8000A	847
FRESH WATER PUMP	5.1000	248
THERMOSTAT		329
WATER CONNECTIONS STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL	5.3000B	361
WATER CONNECTIONS EXHAUST MANIFOLD	5.3000B	402
SHUT-OFF STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL	0.1000A	517
ENGINE MOUNTING	1.40000	1014
	1.1000A	670

CYLINDER BLOCK STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL CYLINDER HEAD THRU 9G-116283 CYLINDER HEAD THRU 9G-116284 CYLINDER HEAD THRU 9G-116284 CYLINDER HEAD EFF WITH 9G-116284 CRANKSHAFT FRONT COVER THRU 8G-40932 CRANKSHAFT FRONT COVER EFF WITH 8G-40932 AND THRU 8G-81675 CRANKSHAFT FRONT COVER EFF WITH 8G-80933 AND THRU 8G-81675 CRANKSHAFT FRONT COVER EFF WITH 8G-81678 CONNECTING BOD AND PISTON CONNECTING BOD AND PISTON 1.50004 1.50006 CONNECTING BOD AND PISTON 1.50006 CONNECTING BOD AND PISTON 1.50007 1.		GROUP	
TUINDER BEAD THRU 8G 116263 TVINDER BEAD EFF WITH 8G 116264 ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 1, 2000 A 214 CRANKSHAFT FRONT COVER THRU 8G54092 CRANKSHAFT FRONT COVER FEF. WITH 8G54092 CRANKSHAFT FRONT COVER FEF. WITH 8G54093 AND THRU 8G81675 1, 3000 A 137 CRANKSHAFT FRONT COVER FEF. WITH 8G8 1676 CONNECTING ROD AND PISTON 1, 4000 A 964 FLYWHEEL HOUSING CONNECTING ROD AND PISTON 1, 6000 B89 CONNECTING ROD AND PISTON 1, 6000 B89 CAMSHAFT AND GEAR TRAIN 1, 7000 241 VALVE OPERATING MECHANISM FFF. WITH 8G78 169 1, 8000 155 VALVE OPERATING MECHANISM FFF. WITH 8G78 169 1, 8000 156 CONNECTING ROD AND PISTON 1, 8000 156 COVER FEF. WITH 8G.62899 AND THRU 8G.116263 1, 8000 156 COVER FEF. WITH 8G.62899 AND THRU 8G.116263 1, 8000 A 455 ROCKER COVER FFF. WITH 8G.78166 1, 8000 A 455 COVER FFF. WITH 8G.78166 1, 8000 A	GROUP NAME	NO.	TYPE
CYLINDER HEAD THRU 8G-118264 CYLINDER HEAD EFF. WITH 8G-118264 CYLINDER HEAD EFF. WITH 8G-118264 CRANKSHAFT CRANKSHAFT CRANKSHAFT FRONT COVER THRU 8G54092 CRANKSHAFT FRONT COVER EFF. WITH 8G54093 AND THRU 8G81675 CRANKSHAFT FRONT COVER EFF. WITH 8G54093 AND THRU 8G81675 CRANKSHAFT FRONT COVER EFF. WITH 8G54093 AND THRU 8G81675 CRANKSHAFT FRONT COVER EFF. WITH 8G54093 AND THRU 8G81675 CRANKSHAFT FRONT COVER EFF. WITH 8G54093 AND THRU 8G81675 CRANKSHAFT FRONT COVER EFF. WITH 8G54093 AND THRU 8G81675 CRANKSHAFT FRONT COVER EFF. WITH 8G54093 AND THRU 8G81675 CRANKSHAFT FRONT COVER EFF. WITH 8G54093 AND THRU 8G81675 CRANKSHAFT FRONT COVER EFF. WITH 8G54093 AND THRU 8G81675 CRANKSHAFT FRONT COVER EFF. WITH 8G54093 AND THRU 8G81675 CONNECTING ROD AND PISTON CONNECTING ROD AND PISTON CONNECTING ROD AND PISTON CAMSHAFT AND GEAR TRAIN 1,0000 241 VALVE OPERATING MECHANISM FFF. WITH 8G78169 1,8000 1,8	CALINDED BLOCK STO FOLLID DRIOD TO BEING SHOWN ON OPTION LARF!	1.1000	183
CYLINDER HEAD EFF. WITH 8G-116264 ROMNE LIFTER BRACKET STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 1.2000A 214 CRANKSHAFT FRONT COVER THRU 8G54092 CRANKSHAFT FRONT COVER EFF. WITH 8G54093 AND THRU 8G81675 1.3000A 1.37 CRANKSHAFT FRONT COVER EFF. WITH 8G54093 AND THRU 8G81675 1.3000A 1.37 CRANKSHAFT FRONT COVER EFF. WITH 8G64093 AND THRU 8G81675 1.3000A 1.37 CRANKSHAFT FRONT COVER EFF. WITH 8G61676 CONNECTING ROD AND PISTON 1.5000A 655 CONNECTING ROD AND PISTON 1.5000A 655 CONNECTING ROD AND PISTON 1.5000A 655 CAMSHAFT AND GEAR TRAIN 1.7000 241 VALVE OPERATING MECHANISM THRU 8G78168 1.8000 1.5000A 1.5	CVINDED BEAD THRU 96.116263	1.2000	153
ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 1.3000 74 CRANKSHAFT CRANKSHAFT FRONT COVER THRU 8G54092 1.3000A 137 CRANKSHAFT FRONT COVER EFF. WITH 8G54093 AND THRU 8G81675 1.3000A 137 CRANKSHAFT FRONT COVER EFF. WITH 8G54093 AND THRU 8G81675 1.3000A 137 CRANKSHAFT FRONT COVER EFF. WITH 8G54093 AND THRU 8G81676 1.3000C 340 CRANKSHAFT PULLEY TD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 1.3000C 365 FLYWHEEL 1.3000A 165 FLYWHEEL HOUSING 1.3000A 165 CONNECTING ROD AND PISTON 1.7000 241 CAMSHAFT AND GEAR TRAIN 1.7000 241 VALVE OPERATION MECHANISM EFF. WITH 8G78168 1.8000 155 VALVE OPERATION MECHANISM EFF. WITH 8G78169 1.8000 214 ROCKER COVER 1HRU 8G62898 1.8000A 455 ROCKER COVER EFF. WITH 8G618289 AND THRU 8G-116263 1.8000A 455 ROCKER COVER EFF. WITH 8G618296 ROCKER COVER EFF. WITH 8G684092 ROCKER COVER EFF. WITH 8G684093 ROCKER COVER EFF. WITH 8G684093 AND THRU 8G9116263 ROCKER COVER EFF. WITH 8G684093 ROCKER COVER EFF. WITH 8G684093 AND THRU 8G9116263 ROCKER COVER EFF. WITH 8G684093 AND THRU 8G911675 RULL LINES EFF. WITH 8G61878 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL RULL LINES EFF. WITH 8G61878 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL RULL LINES EFF. WITH 8G61678 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL RULL LINES EFF. WITH 8G61678 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL RULL LINES EFF. WITH 8G61678 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL RULL LINES EFF. WITH 8G61678 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL RULL LINES EFF. WITH 8G6102386 RULL RULL RULL RULL RULL RUL	CYLINDER HEAD EEF WITH 8G-116264	1.2000	169
CRANKSHAFT FRONT COVER THRU 8G54092 CRANKSHAFT FRONT COVER EFF. WITH 8G54093 AND THRU 8G81675 1.3000A 133 CRANKSHAFT FRONT COVER EFF. WITH 8G64093 AND THRU 8G81675 1.3000A 137 CRANKSHAFT FRONT COVER EFF. WITH 8G61676 1.3000A 137 CRANKSHAFT FRONT COVER EFF. WITH 8G61676 1.3000C 370 FLYWHEEL 1.3000C 370 FLYWHEEL HOUSING 1.5000A 655 CONNECTING ROD AND PISTON 1.5000A 655 CONNECTING ROD AND PISTON 1.5000A 655 CONNECTING ROD AND PISTON 1.5000A 1	ENGINE LIFTER BRACKET STD FOLLIP PRIOR TO BEING SHOWN ON OPTION LABEL	1.2000A	
CRANKSHAFT FRONT COVER EFF. WITH 8G54093 AND THRU 8G81675 1.3000A 137 CRANKSHAFT FRONT COVER EFF. WITH 8G81676 1.3000A 143 CRANKSHAFT FRONT COVER EFF. WITH 8G81676 1.3000C 370 FLYWHEEL 1.3000C 389 F	CRANKSHAFT	1,3000	74
CRANKSHAFT FRONT COVER EFF. WITH 8654093 AND THRU 8G81675 1.3000A 143 CRANKSHAFT FRONT COVER EFF. WITH 8651676 1.3000C 370 FLYWHEEL 1.400A 665 FLYWH	CRANKSHAFT FRONT COVER THRU 8G54092	1.3000A	133
CRANKSHAFT PULLEY STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 1.3000C 370 FLYWHEEL 1.4000A 964 FLYWHEEL HOUSING 1.5000A 1	CRANKSHAET FRONT COVER EFF. WITH 8G54093 AND THRU 8G81675	1.3000A	
CRANKSHAFT PULLEY STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 1,3000C 370 1,5000A 655 1,5000A 1,5	CRANKSHAFT FRONT COVER FEE WITH 8G81676	1.3000A	
FLYWHEEL HOUSING	CRANKSHAFT PULLEY STD. FOLIP PRIOR TO BEING SHOWN ON OPTION LABEL	1.3000C	370
ELYWHEEL HOUSING	EL YMHEEL	1.4000A	964
CONNECTING ROD AND PISTON 1.6000 189 CAMSHAFT AND GEAR TRAIN 1.7000 241 VALVE OPERATION MECHANISM THRU 8G78 168 1.8000 155 VALVE OPERATION MECHANISM FFF. WITH 8G78 169 1.8000 214 ROCKER COVER THRU 8G62898 1.8000A 455 ROCKER COVER THRU 8G62898 1.8000A 455 ROCKER COVER EFF. WITH 8G-62899 AND THRU 8G-116263 1.8000A 458 ROCKER COVER EFF. WITH 8G-62899 AND THRU 8G-116263 2.2000 174 FUEL INJECTOR 2.2000 187 FUEL PUMP THRU 8G78 165 2.2000 187 FUEL PUMP THRU 8G78 165 2.2000 187 FUEL PUMP THRU 8G78 166 2.2000 187 FUEL FILTER THRU 8G54093 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 2.3000A 684 FUEL LINES THRU 8G54093 AND THRU 8G8 1675 2.5000A 1548 FUEL LINES FFF. WITH 8G8 1676 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 2.5000A 1644 MECHANICAL GOVERNOR 2.7000A 1676 INJECTOR CONTROLS 2.7000A 1676 AIR INLEST HOUSING 43 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 3.1000A 365 AIR INLEST HOUSING 3.5000A 433 OIL PUMP 4.1000A 455 OIL PIRES EFF. WITH 8G1 1676 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 3.1000A 365 AIR INLEST HOUSING 3.5000A 455 OIL PIRES WITH 8G1 1676 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 3.1000A 365 AIR INLEST HOUSING 4.1000A 455 OIL PIRES WITH 8G1 1676 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 3.1000A 365 OIL PUMP 4.1000A 455 OIL PIRES WITH 8G1 16264 4.1000C 2.5 OIL FILTER EFF. WITH 8G1 16264 4.1000C 2.5 OIL FILTER EFF. WITH 8G1 16264 4.1000A 367 OIL FILTER EFF. WITH 8G1 16264 4.1000A 367 OIL FILTER EFF. WITH 8G1 16264 4.1000A 367 OIL FILLER CAP THRU 8G1 16264 5.1000A 367 OIL FILLER CAP THRU 8G1	FLYWHEEL HOUSING	1.5000A	
CAMSHAFT AND GEAR TRAIN VALVE OPERATING MECHANISM THRU 8G78168 VALVE OPERATION MECHANISM EFF. WITH 8G78169 ROCKER COVER LEFF. WITH 8G62898 ROCKER COVER EFF. WITH 8G-62899 AND THRU 8G-116263 ROCKER COVER EFF. WITH 8G-116264 ROCKER COVER EF	CONNECTING ROD AND PISTON	1.6000	
VALVE OPERATION MECHANISM THRU 8G78168 1.8000 214 VALVE OPERATION MECHANISM EFF. WITH 8G78169 1.8000 214 ROCKER COVER THRU 8G62898 1.8000A 455 ROCKER COVER EFF. WITH 8G-62899 AND THRU 8G-116263 1.8000A 498 ROCKER COVER EFF. WITH 8G-116264 2.1000A 174 FUEL PUMP THRU 8G78165 2.2000 187 FUEL PUMP THRU 8G78165 2.2000 187 FUEL PUMP THRU 8G78166 2.2000 187 FUEL PUMP EFF. WITH 8G54093 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 2.5000A 1614 FUEL LINES THRU 8G54092 2.5000A 1614 FUEL LINES THRU 8G54092 2.5000A 1614 FUEL LINES THRU 8G54093 AND THRU 8G81675 2.5000A 1614 FUEL LINES EFF. WITH 8G54093 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 2.5000A 1614 FUEL LINES EFF. WITH 8G54093 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 2.5000A 1614 FUEL LINES EFF. WITH 8G54093 AND THRU 8G81675 2.25000A 1614 FUEL LINES EFF. WITH 8G54093 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 2.5000A 1614 FUEL LINES EFF. WITH 8G54093 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 3.000A 260 RINLETOR CONTROLS 3.000A 260 AIR INLET HOUSING 3.000A 260 AIR INLET HOUSING 3.000A 260 AIR INLET HOUSING 4.1000A 365 AIR INLET HOUSING 5.1000A 365 AIR INLET HOUSIN	CAMSHAFT AND GEAR TRAIN	1.7000	
VALVE OPERATION MECHANISM EFF. WITH 8G78169 1.8000A 455 ROCKER COVER TFR WITH 8G-62899 AND THRU 8G-116263 1.8000A 498 ROCKER COVER EFF. WITH 8G-116264 1.8000A 523 FUEL INJECTOR 2.1000A 174 FUEL PUMP THRU 8G78165 2.2000 187 FUEL PUMP EFF. WITH 8G78166 2.3000A 684 FUEL FILTER THRU 8G54092 2.3000A 684 FUEL FILTER EFF. WITH 8G54093 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 2.3000A 792 FUEL LINES EFF. WITH 8G54093 AND THRU 8G81675 2.5000A 1548 FUEL LINES EFF. WITH 8G84693 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 2.5000A 1644 FUEL LINES EFF. WITH 8G81676 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 2.5000A 1644 FUEL LINES EFF. WITH 8G81676 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 2.5000A 1644 FUEL LINES EFF. WITH 8G81676 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 2.5000A 1644 FUEL LINES EFF. WITH 8G81676 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 3.3000A 262 INJECTOR CONTROLES 3.3000A 262 3.3000A 262 INJECTOR CONTROLES 3.3000A <	VALVE OPERATING MECHANISM THRU 8G78168	1.8000	
ROCKER COVER FFF. WITH 8G-62899 AND THRU 8G-116263 ROCKER COVER EFF. WITH 8G-62899 AND THRU 8G-116263 ROCKER COVER EFF. WITH 8G-116264 FUEL INJECTOR 1.8000A 498 ROCKER COVER EFF. WITH 8G-116264 FUEL INJECTOR 2.1000A 174 FUEL PUMP THRU 8G78 165 FUEL PUMP THRU 8G78 165 FUEL PUMP EFF. WITH 8G54092 FUEL FILTER THRU 8G54092 FUEL FILTER THRU 8G54093 FUEL FILTER F. WITH 8G54093 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL FUEL LINES FH. WITH 8G54093 AND THRU 8G81675 FUEL LINES EFF. WITH 8G54093 AND THRU 8G81675 FUEL LINES EFF. WITH 8G81676 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL FUEL LINES EFF. WITH 8G81676 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL FUEL LINES EFF. WITH 8G81676 FUEL ENTRY WITH 8G8	VALVE OPERATION MECHANISM FEE WITH 8G78169	- 1.8000	
ROCKER COVER EFF. WITH 8G-62899 AND THRU 8G-116263 ROCKER COVER EFF. WITH 8G-116264 ROCKER COVER EFF. WITH 8G-116264 ROCKER COVER EFF. WITH 8G-116264 ROCKER COVER EFF. WITH 8G-116265 RUEL INJECTOR PUEL PUMP THRU 8G78165 RUEL PUMP THRU 8G78166 RUEL PUMP THRU 8G54092 RUEL FILTER THRU 8G54092 RUEL FILTER EFF. WITH 8G54092 RUEL LINES THRU 8G54092 RUEL LINES EFF. WITH 8G54093 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL LINES EFF. WITH 8G54093 AND THRU 8G81675 RUEL LINES EFF. WITH 8G54093 AND THRU 8G81675 RUEL LINES EFF. WITH 8G54093 AND THRU 8G81675 RUEL LINES EFF. WITH 8G31676 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL RUEL LINES EFF. WITH 8G31676 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL RUEL LINES STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL RUEL LINES STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL RUEL LINES STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL RUEL LINES STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL RUEL LINES SURE REGULATOR. RUEL THRU 8G102385 RUEL THRU 8G116263 RUEL THRU 8G116264 RUEL THRU 8G116265 RUEL THRU 8G116266 RUEL THRU 8G16266 RUEL THRUEL THRUE 8G1626 RUEL THRU 8G1626 RUEL THRU	ROCKER COVER THRU 8G62898	1.8000A	
ROCKER COVER EFF. WITH 8G-116264 1.8000A 523	BOCKER COVER FEE WITH 8G-62899 AND THRU 8G-116263	1.8000A	
FUEL INJECTOR 2.1000A 174 FUEL PUMP THRU 8G78165 2.2000 187 FUEL PUMP FFF. WITH 8G78166 2.2000 198 FUEL PUMP FFF. WITH 8G78166 2.3000A 684 FUEL FILTER THRU 8G54092 2.3000A 792 FUEL FILTER EFF. WITH 8G54093 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 2.3000A 792 FUEL LINES EFF. WITH 8G54093 AND THRU 8G81675 2.5000A 1614 FUEL LINES EFF. WITH 8G81676 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 2.5000A 1614 FUEL LINES EFF. WITH 8G81676 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 2.5000A 1614 FUEL LINES EFF. WITH 8G81676 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 2.5000A 1614 FUEL LINES EFF. WITH 8G81676 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 2.5000A 1624 MECHANICAL GOVERNOR 2.9000 292 AIR CLEANER STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 3.1000A 365 AIR INLET HOUSING 3.3000A 626 AIR INLET HOUSING 3.3000A 626 TURBOCHARGER 3.5000A 443 OIL PUMP 4.1000A 151 OIL DISTRIBUTION SYSTEM 4.1000B 455 OIL DISTRIBUTION SYSTEM 4.1000B 455 OIL FILTER THRU 8G102384 4.2000A 347 OIL FILTER THRU 8G102385 4.2000A 347 OIL FILTER THRU 8G102385 4.2000A 366 OIL COOLER STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 4.4000A 868 OIL COOLER STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 4.6000A 947 OIL FILLER CAP EFF. WITH 8G-116263 4.5000A 564 OIL FILLER CAP EFF. WITH 8G-116263 5.5000B 329 WATER CONNECTIONS STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 5.3000B 361 WATER CONNECTIONS STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 5.3000B 361 WATER CONNECTIONS STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 5.3000B 361 WATER CONNECTIONS STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 5.3000B 361 EXHILT. DEFENSE STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 5.3000B 361 EXHILT. DEFENSE STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 5.3000B 361 EXHILT. DEFENSE STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 5.3000B 361 EXHILT. DEFENSE STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 5.3000B 361 EXHILT. DEFENSE STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 5.3000C 1014	BOCKER COVER FEE WITH 8G-116264	1.8000A	
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### FRESH WATER PUMP THERMOSTAT WATER CONNECTIONS STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL WATER CONNECTIONS EXHAUST MANIFOLD STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL EXHAUST MANIFOLD STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 5.3000B 6.1000A 5.1000 7.4000C 1014	OIL PAN	4.7000A	
THERMOSTAT	VENTILATING SYSTEM	5 1000	
WATER CONNECTIONS STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 5.3000B 402 WATER CONNECTIONS 5.3000B 402 EXHAUST MANIFOLD STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 6.1000A 5.16 5.4000C	FRESH WATER PUMP		
WATER CONNECTIONS STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 5.3000B 402 EXHAUST MANIFOLD STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 6.1000A 516 SHULL OFF STD. FOULLP PRIOR TO BEING SHOWN ON OPTION LABEL 7.4000C 1014	THERMOSTAT		
EXHAUST MANIFOLD STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL 6.1000A 516 SHUT-OFE STD. FOUR PRIOR TO BEING SHOWN ON OPTION LABEL 7.4000C 1014	WATER CONNECTIONS STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL	5.3000B	
SHIPTOFE STD FOUR PRIOR TO BEING SHOWN ON OPTION LABEL 7.4000C 1014	WATER CONNECTIONS	6 10000	
SHUT-OFF STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL	EXHAUST MANIFOLD STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL	7.40000	
ENGINE MOUNTING	SHUT-OFF STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL	11 10004	
	ENGINE MOUNTING		

GROUP NAME	GROUP NO.	TYPĒ
CYLINDER BLOCK	1.1000	183
CYLINDER HEAD	1.2000	169
ENGINE LIFTER BRACKET		214
CRANKSHAFT	1.3000	74
CRANKSHAFT FRONT COVER		143
CRANKSHAFT PULLEY		370
FLYWHEEL		964
FLYWHEEL HOUSING		597
CONNECTING ROD AND PISTON	1.6000	188
CAMSHAFT AND GEAR TRAIN	1.7000	240
	1.8000A	523
FUEL INJECTOR	2.1000A	173
FUEL PUMP	2.2000	198
FUEL FILTER	2.3000A	792
FUEL LINES	2.5000A	1646
MECHANICAL GOVERNOR	2.7000A	1876
INJECTOR CONTROLS	2.9000	297
AIR CLEANER		372
	3.3000A	626
OIL PUMP	4.1000A	151
OIL DISTRIBUTION SYSTEM	4.1000B	455
OIL PRESSURE REGULATOR	4.1000C	25
	4.2000A	464
OIL COOLER		1099
OIL FILLER	4.5000A	163
DIPSTICK		946
OIL PAN	4.7000A	718
VENTILATING SYSTEM (ON ROCKER COVER)	4.8000A	847
FRESH WATER PUMP	5.1000	255
THERMOSTAT	5,2000B	340
	5.3000B	393
EXHAUST MANIFOLD	6.1000A	517
BATTERY CHARGING GENERATOR	7.1000A	2175
STARTING MOTOR	7.3000A	311
SHUT-OFF OR ALARM SYSTEM	7.4000C	1014
ENGINE MOUNTING	1.1000A	670

	GROUP	
GROUP NAME	NO.	TYPE
	1 1000	183
CYLINDER BLOCK		169
		214
ENGINE LICTED DOACVET	1.3000	74
CRANKSHAFT		143
CRANKSHAFT FRONT COVER		370
CRANKSHAFT PULLEY		964
FLYWHEEL	1.5000A	655
FLYWHEEL HOUSING	1.6000	271
CONNECTING ROD AND PISTON	1.7000	241
CAMSHAFT AND GEAR TRAIN	1.8000A	523
ROCKER COVER	2.1000A	233
FUEL INJECTOR		198
FUEL PUMP	2.3000A	792
FUEL FILTER	2.5000A	1646
FUEL LINES		1876
MECHANICAL GOVERNOR		297
INJECTOR CONTROLS	3.1000A	365
AIR CLEANER		626
AIR INLET HOUSING	3.5000A	443
TURBOCHARGER		151
OIL PUMP	: : : : <u></u>	455
OIL DISTRIBUTION SYSTEM		25
OIL PRESSURE REGULATOR		464
OIL FILTER		1100
OIL COOLER.	4.5000A	164
OIL FILLER	4.6000A	946
DIPSTICK	4.7000A	718
OIL PAN		846
VENTILATING SYSTEM (ON ROCKER COVER) FRESH WATER PUMP	5.1000	255
FRESH WATER PUMP	5.2000B	340
	5.3000B	393
	6.1000A	516
EXHAUST MANIFOLD	7.1000A	2175
BATTERY CHARGING GENERATOR STARTING MOTOR	7.3000A	311
STARTING MOTOR SHUT-OFF OR ALARM SYSTEM	7.4000C	1014
SHUT-OFF OR ALARM SYSTEM ENGINE MOUNTING	11.1000A	670
ENGINE MOUNTING		

	GROUP	
GROUP NAME	NO.	TYPE
CYLINDER BLOCK	1.1000	183
CYLINDER HEAD THRU 8G-115921		153
CYLINDER HEAD EFF. WITH 8G-115922	1.2000	169
ENGINE LIFTER BRACKET		214
CRANKSHAFT	1.3000	74
CRANKSHAFT FRONT COVER THRU 8G54092		133
CRANKSHAFT FRONT COVER EFF. WITH 8G54093 AND THRU 8G81675		137
CRANKSHAFT FRONT COVER EFF. WITH 8G81676		143
CRANKSHAFT PULLEY STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL	1.3000C	370
FLYWHEEL		964
FLYWHEEL HOUSING		597
CONNECTING ROD AND PISTON		188
CAMSHAFT AND GEAR TRAIN		240
VALVE OPERATING MECHANISM THRU 8G78168		155
VALVE OPERATING MECHANISM EFF. WITH 8G78169		214
ROCKER COVER THRU 8G62898		455
ROCKER COVER EFF. WITH 8G-62899 AND THRU 8G-115921		498
ROCKER COVER EFF. WITH 8G-115922		523
FUEL INJECTOR FUEL PUMP THRU 8G78165		173 187
FUEL PUMP THRU 8G78165		198
FUEL FILTER STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL	2.2000	684
FUEL FILTER		792
FUEL LINES STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL	2.500004	1548
FUEL LINES		1644
MECHANICAL GOVERNOR		1876
INJECTOR CONTROLS		297
AIR CLEANER		366
AIR INLET HOUSING		626
OIL PUMP		151
OIL DISTRIBUTION SYSTEM	4.1000B	455
OIL PRESSURE REGULATOR	4.1000C	25
OIL FILTER STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL	4.2000A	347
OIL FILTER	4.2000A	464
COOLER STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL	4.4000A	868
OIL COOLER		868
OIL FILLER CAP THRU 8G-115921	4.5000A	55
OIL FILLER CAP EFF. WITH 8G-115922		163
DIPSTICK		947
	4.7000A	679
OIL PAN EFF. WITH 8654093 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL		718
VENTILATING SYSTEM		847
FRESH WATER PUMPTHERMOSTAT		248 329
	5.2000B 5.3000B	
WATER CONNECTIONS STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL		361 402
	6.1000A	517
EXHAUST MANIFOLD		1014
ENGINE MOUNTING		670

	GROUP	
GROUP NAME	NO.	TYPE
G N O O I N A M L		
CYLINDER BLOCK	1.1000	183
CYLINDER BLOCK	1.2000	153
CYLINDER HEAD THRO 6G-115921	1.2000	169
ENGINE LIFTER BRACKET	1.20007	214
	1.3000	74
CRANKSHAFTCOVER THRU 8G81675	1.3000A	137
CRANKSHAFT FRONT COVER FFF. WITH 8G81676	1.3000A	143
CRANKSHAFT PULLEY	1.3000C	370
	1.4000A	964
FLYWHEEL	1.5000A	597
FLYWHEEL HOUSING	1.6000	188
CONNECTING ROD AND PISTON	1.7000	240
CAMSHAFT	1.8000	155
VALVE OPERATING MECHANISM THRU 8G78168	1.8000	214
VALVE OPERATING MECHANISM EFF. WITH 8G78169	1.8000A	455
DOCKED COVED THRIL SCHOOLS	1.8000A	498
ROCKER COVER EFF. WITH 8G-62899 AND THRU 8G-115921	1.8000A	523
ROCKER COVER EFF. WITH 8G-115922	2.1000A	196
FUEL INJECTOR		187
ENEL DIMP TUDI 9679165		198
FUEL PUMP EFF. WITH 8G78166	2.3000A	792
FUEL FILTER		1645
CHELLINGS		1876
NATIONAL COVERNOR	2.7000A	297
IN FECTOR CONTROLS	3.1000A	366
AID OLEANED	3.10007	626
AIR INLET HOUSING		151
OIL DUMD	4.10007	455
OIL DISTRIBUTION SYSTEM	4.10000	25
OIL PRESSURE REGULATOR	4.10000	464
OIL EILTER	4.2000A	1083
OIL COOLER	4.4000A	55
ON ENICO CAR THRU 96-115921	4.50000	
OIL FILLER CAR FEE WITH 8G-115922	4.50007	163 947
DIRECTICK	4.6000A	
OIL DAN	4.7000A	718
VENTUATING CYCTEM	4.8000A	847
ERECH WATER PIIMP	3.1000	248
THERMOSTAT	3.20000	329
MATER CONNECTIONS	5.3000B	402
EVHALIST MANIEOLD	6.1000A	517
	7.70000	1014
ENGINE MOUNTING	11.1000A	670
Ending Modernia		

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	183
CYLINDER HEAD THRU 8G-115921		153
CYLINDER HEAD EFF. WITH 8G-115922		169
ENGINE LIFTER BRACKET		214
CRANKSHAFT	1.3000	74
CRANKSHAFT FRONT COVER THRU 8G-81675	1.3000A	137
CRANKSHAFT FRONT COVER EFF. WITH 8G-81676	1.3000A	143
CRANKSHAFT PULLEY	1.3000C	370
FLYWHEEL	1.4000A	964
FLYWHEEL HOUSING		597
CONNECTING ROD AND PISTON	1.6000	188
CAMSHAFT	1.7000	240
VALVE OPERATING MECHANISM	1.8000	214
ROCKER COVER THRU 8G-62898	1.8000A	455
ROCKER COVER EFF. WITH 8G-62899 AND THRU 8G-115921	1.8000A	498
	1.8000A	523
FUEL INJECTOR		210
FUEL PUMP		198
FUEL FILTER		792
FUEL LINES		1645
	2.7000A	1876
	2.9000	297
	3.1000A	372
AIR INLET HOUSING		626
OIL PUMP	4.1000A	151
+	4.1000B	455
OIL PRESSURE REGULATOR	4.1000C	25
OIL FILTER	4.2000A	464
OIL FILLER CAP THRU 8G-115921	4.5000A	55
	4.5000A	163
DIPSTICK	4.6000A	947
OIL PAN		718
	4.8000A	847
	5.1000A	248
	5.2000B	329
	5.2000B 5.3000B	
	6.1000B	402
		517
Bullion and the state of the st	7.4000C	1014
ENGINE MOUNTING	1.1000A	670

	GROUP	
GROUP NAME	NO.	TYPE
CYLINDER BLOCK	1.1000	183
CYLINDER HEAD	1.2000	153
FINITING TIPLED DEAUNEL	1.2000A	214
CRANKSHAFT STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL	1.3000	74
CRANKSHAFT FRONT COVER THRU 8G54092	1.3000A	133
CHANNSHAFT FROM COVER EFF. WITH 6054032 AND TIMO 6061070	1.3000A	137
CRANKSHAFT FRONT COVER EFF. 8G81676	1.3000A	143
CRANKSHAFT PULLEY	1,3000C	370
FLYWHEEL	1.4000A	964
F) YVVHEEL MUUDIIVU	1.5000A	655
CONNECTING ROD AND PISTON	1.6000	188
CAMSHAFT AND GEAR TRAIN	1.7000	240
VALVE OPERATING MECHANISM THRU 8G78168	1.8000	155
VALVE OPERATING MECHANISM EFF. WITH 8G78169	1.8000	214
ROCKER COVER THRU 8G-62898	1.8000A	455
ROCKER COVER FEE WITH 8G-62899	1.8000A	498
FUEL INJECTOR	2.1000A	173
FUEL PUMP THRU 8G78165	2.2000	187
FUEL PUMP EFF. WITH 8G78166	2.2000	198
FUEL FILTER	2.3000A	792
FUEL LINES	2.5000A	1644
MECHANICAL GOVERNOR	2.7000A	1876
INJECTOR CONTROLS	2.9000	297
AIR CLEANER	3.1000A	366
AIR INLET HOUSING	3.3000A	626
OII PILMP	4.1000A	151
OIL DISTRIBUTION SYSTEM	4.1000B	455
OIL PRESSURE REGULATOR	4.1000C	25
OIL FILTER	4.2000A	347
OIL COOLER	4.4000A	868
OIL FILLER	4.5000A	55
DIPSTICK	4.6000A	947
OIL PAN	4.7000A	718
VENTILATING SYSTEM	4.8000A	826
FRESH WATER PUMP	5.1000	233
THERMOSTAT	5.2000B	292
WATER CONNECTIONS	5.3000B	361
EXHAUST MANIFOLD	6.1000A	517
SHIT OFF OR ALARM SYSTEM	7.4000C	1014
ENGINE MOUNTING	11.1000A	669
ENGINE WOOM THE CONTROL OF THE CONTR		

	GROUP	
GROUP NAME	NO.	TYPE
CYLINDER BLOCK	1.1000	183
CYLINDER HEAD THRU 8G-116263	1.2000	153
CYLINDER HEAD EFF. WITH 8G-116264	1.2000	169 214
ENGINE LIFTER BRACKET	1.2000A	74
CRANKSHAFT	1.3000	133
CRANKSHAFT FRONT COVER THRU 8G54092	1.3000A	137
CRANKSHAFT FRONT COVER EFF. WITH 8G54093 AND THRU 8G81675	1.3000A	143
CRANKSHAFT FRONT COVER EFF. WITH 8G81676	1.3000A	370
FLYWHEEL	1.40000	964
FLYWHEEL HOUSING	1.5000A	655
CONNECTING ROD AND PISTON		189
CAMSHAFT AND GEAR TRAIN	1.7000	241
VALVE OPERATING MECHANISM THRU 8G78168	1.8000	155
VALVE OPERATING MECHANISM EFF. WITH 8G78169	1.8000	214
ROCKER COVER THRU 8G62898	1.8000A	455
ROCKER COVER EFF. WITH 8G-62899 AND THRU 8G-116263	1.8000A	498
ROCKER COVER EFF. WITH 8G-116264	1.8000A	523
FUEL INJECTOR	2.1000A	174
FUEL PUMP THRU 8G78165	2.2000	187
FUEL PUMP EFF. WITH 8G78166	2.2000	198
FUEL FILTER THRU 8G54092	2.3000A	684
FUEL FILTER EFF, WITH 8G54093 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL	2.3000A	792
FUEL LINES THRU 8G54092	2.5000A	1548
FUEL LINES EFF. WITH 8G54093 AND THRU 8G81675	2.5000A	1614
FUEL LINES EFF. WITH 8G81676 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL		1644
MECHANICAL GOVERNOR	2.7000A	1876
INJECTOR CONTROLS	2.9000	297
AIR CLEANER	3.1000A	365
AIR INLET HOUSING	3.3000A	626
TURBOCHARGER	3.5000A	443
OIL PUMP	4.1000A	151
OIL DISTRIBUTION SYSTEM	4.1000B	455
OIL PRESSURE REGULATOR	4.10000	25
OIL FILTER THRU 8G102384	4.2000A	347 464
OIL FILTER EFF. WITH 8G 102385		868
OIL COOLER STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL		1079
OIL COOLER OIL FILLER CAP THRU 8G-116263	4.4000A	55
OIL FILLER CAP EFF. WITH 8G-116264		164
DIPSTICK		947
OIL PAN THRU 8G54092 (THRU 8GT1528)		679
OIL PAN EFF. WITH 8654093 (EFF. WITH 8GT1529) AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION	4.700070	0.0
LABEL	4.7000A	718
VENTILATING SYSTEM	4.8000A	846
FRESH WATER PUMP		248
THERMOSTAT	5.2000B	329
WATER CONNECTIONS STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL	5.3000B	361
WATER CONNECTIONS	5.3000B	402
EXHAUST MANIFOLD	6.1000A	516
SHUT-OFF STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION LABEL	7.4000C	1014
ENGINE MOUNTING	11.1000A	670

STANDARD AND STANDARD OPTION EQUIPMENT

	GROUP	
GROUP NAME	NO.	TYPE
CYLINDER BLOCK	1.1000	183
CYLINDER HEAD	1.2000	169
ENGINE LIFTER BRACKET	1.2000A	214
CRANKSHAFT	1.3000	74
CRANKSHAFT FRONT COVER	1.3000A	143
CRANKSHAFT PULLEY	1.3000C	370
FLYWHEEL	1.4000A	964
FLYWHEEL HOUSING	1.5000A	655
CONNECTING ROD AND PISTON	1.6000	271
CAMSHAFT AND GEAR TRAIN	1.7000	241
VALVE OPERATING MECHANISM	1.8000	214
ROCKER COVER	1.8000A	523
FUEL INJECTOR	2.1000A	233
FUEL PUMP	2.2000	198
FUEL FILTER	2.3000A	828
FUEL LINES	2.5000A	1719
MECHANICAL GOVERNOR	2.7000A	1876
INJECTOR CONTROLS	2.9000	297
AIR CLEANER ADAPTOR	3.1000A	365
AIR INLET HOUSING	3.3000A	626
TURBOCHARGER	3.5000A	827
OIL PUMP	4.1000A	151
OIL DISTRIBUTION SYSTEM	4.1000B	455
OIL PRESSURE REGULATOR	4.1000C	25
OIL FILTER	4.2000A	464
OIL COOLER	4.4000A	1093
OIL FILLER CAP	4.5000A	164
DIPSTICK	4.6000A	947
OIL PAN	4.7000A	718
VENTILATING SYSTEM (ON ROCKER COVER)	4.8000A	846
FRESH WATER PUMP		248
THERMOSTAT	5.2000B	329
WATER CONNECTIONS	5.3000B	402
EXHAUST MANIFOLD	6.1000A	516
SHUT-OFF OR ALARM SYSTEM	7.4000C	1014
	11.1000A	670

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	183
CYLINDER HEAD THRU 8G-116263	1.2000	153
CYLINDER HEAD THRU 8G-116263	1 2000	169
ENGINE LIFTER BRACKET	1.2000A	214
		74
CRANKSHAFTCOVERCOVER	1.3000A	143
CHANKSHAFT FRONT COVER	1.3000C	370
CRANKSHAFT PULLEY		964
FLYWHEELFLYWHEEL HOUSING	1.5000A	655
FLYWHEEL HOUSING	1.6000	189
CONNECTING ROD AND PISTON	1.7000	241
CAMSHAFT AND GEAR TRAIN	1.8000	214
VALVE OPERATING MECHANISM		498
ROCKER COVER THRU 8G-116263	1.8000A	523
ROCKER COVER EFF. WITH 8G-116264	2.1000A	232
FUEL INJECTOR		198
FUEL PUMP	2.2000	792
FUEL FILTER	2.5000A	1644
FUEL LINES	2.3000A	1876
MECHANICAL GOVERNOR	2.7000A	297
INJECTOR CONTROLS	2.3000	365
AIR CLEANER ADAPTOR	3.1000A	626
AIR INLET HOUSING	3.3000A	443
THIRDCHARGER	3.5000A	151
OIL PUMP	4.1000A	455
OIL DISTRIBUTION SYSTEM	4.10000	25
OIL PRESSURE REGULATOR	4.1000C	464
OIL EILTER	4.2000A	1100
OIL COOLER	4.4000A	55
OIL FILLER CAP THRU 8G-116263	4.5000A	164
OIL FILLER CAP FEE WITH 8G-116264	4.5000A	947
DIPSTICK	4.6000A	718
OIL DAM	4.7000A	826
VENTUATING CYCTEM TUDIL 9G-11FQ21	4.0000A	
VENTILATING SYSTEM (ON BOCKER COVER) FEE WITH 8G-115922	4.0000A	846
EDECH WATER DIMP	5,1000	248
THEDMOSTAT	5.20006	329
WATER CONNECTIONS	3.30008	403
EVHALIST MANIFOLD	Q. TOOOM	516
CHIT OEE OD ALADM SYSTEM	7.40000	1014
SHOTOFF ON ALAIM STSTEM	11.1000A	670

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STANDARD AND STANDARD OPTION EQUIPMENT

	GROUP	
GROUP NAME	NO.	TYPE
CYLINDER BLOCK	1.1000	183
CYLINDER HEAD THRU 8G-116263	1.2000	153
CYLINDER HEAD EFF. WITH 8G-116264		169
ENGINE LIFTER BRACKET	1.2000A	214
CRANKSHAFT		74
CRANKSHAFT FRONT COVER THRU 8G81675	1.3000A	137
CRANKSHAFT FRONT COVER EFF. WITH 8G81676	1.3000A	143
CRANKSHAFT PULLEY	1.3000C	370
FLYWHEEL	1.4000A	964
FLYWHEEL HOUSING		655
CONNECTING ROD AND PISTON		189
CAMSHAFT AND GEAR TRAIN		241
VALVE OPERATING MECHANISM		155
ROCKER COVER THRU 8G62898		455
ROCKER COVER EFF. WITH 8G-62899 AND THRU 8G-116263		498
ROCKER COVER EFF, WITH 8G-116264		523
FUEL INJECTOR		254
		187
FUEL PUMP EFF. WITH 8G78166		198
FUEL FILTER		792
FUEL LINES THRU 8G81675		1614
FUEL LINES EFF. WITH 8G81676	2.5000A	1644
MECHANICAL GOVERNOR	2.7000A	1876
NJECTOR CONTROLS		297
AIR CLEANER		365
AIR INLET HOUSING		626
TURBOCHARGER		443
OIL PUMP		151
OIL DISTRIBUTION SYSTEM	4.1000B	455
OIL PRESSURE REGULATOR	4.1000C	25
OIL FILTER THRU 8G102384		347
OIL FILTER EFF. WITH 8G102385	4.2000A	464
OIL COOLER	4.4000A	868
OIL FILLER CAP THRU 8G-116263		55
OIL FILLER CAP EFF. WITH 8G-116264		164
DIPSTICK		947
OIL PAN		718
VENTILATING SYSTEM		846
FRESH WATER PUMP		248
THERMOSTAT		329
WATER CONNECTIONS	5.3000B	361
EXHAUST MANIFOLD		516
SHUT-OFF		1014
ENGINE MOUNTING	1.1000A	670

GROUP NOMENCLATURE

1.0000	ENGINE (less major assemblies)		COOLING SYSTEM (CONT'D)
1,1000	Cylinder Block	5.4000B	Fan Shroud
1.1000A	Air Box Drains	5.5000A	Heat Exchanger or Keel Cooling
1.2000	Cylinder Head	5.6000A	Raw Water Pump Water Filter
1.2000A	Engine Lifter Bracket	5.7000A	water Filter
1.3000	Crankshaft, Oil Seals and Stabilizers	0.0000	EXHAUST SYSTEM
1.3000A	Crankshaft Front Cover	6.0000 6.1000A	Exhaust Manifold and/or Connections
1.3000B	Vibration Damper	6,2000A	Exhaust Muffler and/or Connections
1.3000C	Crankshaft Pulley	0.2000A	Extigust intelliging state of commencers
1,3000D	Crankshaft Pulley Belt	7.0000	ELECTRICAL INSTRUMENTS
1.4000A	Flywheel	7.1000A	Battery Charging Generator
1.5000A 1.5000B	Flywheel Housing Flywheel Housing Adaptor	7.2000A	Battery Cables
1.6000	Connecting Rod and Piston	7.2000B	Automatic Starting
1.7000	Camshaft and Gear Train	7.20008	Automatic Starting (Twin and Quad)
1.7000A	Balance Weight Cover	7.3000A	Starting Motor
1.7000B	Accessory Drive	7.4000A	Instruments
1.8000	Valve and Injector Operating Mechanism	7.4000A	Instruments (Twin and Quad)
1,8000A	Rocker Cover	7.4000B	Tachometer Drive
		7.4000B	Tachometer Drive (Twin and Quad)
2.0000	FUEL SYSTEM	7.4000C	Shutoff, Alarm and O.S. Governor Shutoff, Alarm and O.S. Governor (Twin and Quad)
2.1000A	Fuel Injector	7.4000C	Power Generator
2.2000	Fuel Pump	7.5000A	Control Cabinet
2.2000A	Fuel Pump Drain	7.6000A 7.6000A	Control Cabinet (Twin and Quad)
2. 3000A	Fuel Filter and Strainer	7.5000A 7.7000A	Wiring Harness
2.3000A	Fuel Filter and Strainer (Twin and Quad)	7.8000A	Air Heater
2,4000	Fuel Manifold and/or Connections	7.8000A	Air Heater (Twin and Quad)
2.4000A	Dual Fuel System	7.10000A	
2.5000A	Fuel Lines and Fuel Cooler	7,1000011	,
2.5000A	Fuel Lines and Fuel Cooler (Twin and Quad) Fuel Tank	8.0000	POWER TAKE-OFF
2,6000A	Electric Governor	8.1000A	Power Take-off and/or Clutch
2.6000B 2.7000A	Mechanical Governor	8.1000A	Power Take-off and/or Clutch (Twin and Quad)
2.8000A	Hydraulic Governor	8.3000A	Torque Converter
2.9000	Injector Controls	8.3000A	Torque Converter (Twin and Quad)
2.9000	Injector Controls (Twin and Quad)	8.3000B	Transmission Lines
2.9000A	Throttle Controls		MODEL COMP
2.9000A	Throttle Controls (Twin and Quad)	9.0000	TRANSMISSION AND PROPULSION
		9.1000A	Hydraulic Marine Gear Hydraulic Marine Gear (Twin and Quad)
3.0000	AIR SYSTEM	9.1000A	Reverse and Reduction Gear (mechanical)
3.1000A	Air Cleaner and/or Adaptor	9.2000A	Power Transfer Gear
3.2000A	Air Silencer	9.3000A	Power Transfer Gear (Twin and Quad)
3.3000A	Air Inlet Housing	9.3000A 9.4000	Transmission—Highway
3.4000	Blower and Drive	9.7000	Transmission—Off-highway
3.4000A	Blower Drive Shaft	9.9000	Transmission—Rail Car
3.4000B	Blower End Plate Cover	5.5000	, romania de la companya de la compa
3.5000A	Turbocharger, Intercooler, and Aftercooler	10.0000	SHEET METAL
4.0000	LUBRICATING SYSTEM	10.1000A	Engine Hood
4.0000 4.1000A	Oil Pump	• •	
4.1000A 4.1000B	Oil Distribution System	11.0000	ENGINE MOUNTING
4.1000E	Oil Pressure Regulator	11.1000A	Engine Mounting and Base
4.2000A	Oil Filter	11.1000A	Engine Mounting and Base (Twin and Quad)
4.3000A	Oil Filter Lines		
4.4000A	Oil Cooler and Marine Gear Lines	12.0000	MISCELLANEOUS
4,5000A	Oil Filler	12.2000A	Bilge Pump
4.6000A	Dipstick	12.3000A	Vacuum Pump
4.7000A	Oil Pan	12.4000A	Air Compressor Hydraulic Pump
4.8000A	Ventilating System	12,5000A	Gasoline Starter
		12.6000A 12.6000B	Air Starter
5.0000	COOLING SYSTEM	12.6000C	Cold Weather Starting Aid
5.1000	Fresh Water Pump	12.6000D	Hydraulic Starter
5.1000A		12.6000E	Hydraulic Starter Accessories
5,2000A		12.8000A	
5.2000B		12.8000B	Fabrication Material
5.2000C 5.3000A		12.8000C	Miscellaneous Service Kits and Sets
5.3000A 5.3000B		12.8000D	
5.4000A			
J1000/A	• =:-		

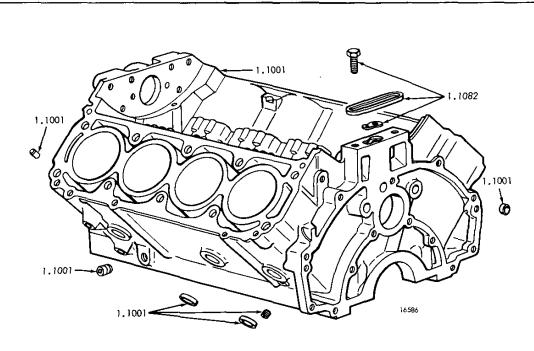


FIG. 1A CYLINDER BLOCK

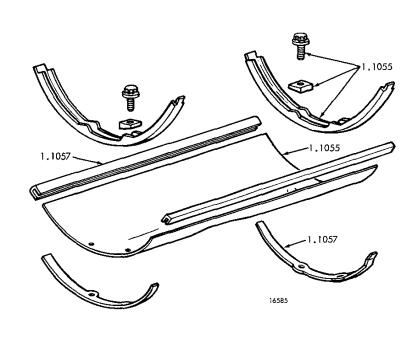


FIG. 1B CYLINDER BLOCK VALLEY COVER

Figs. 1A & 1B of 1.0000

Oct., 1979

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DETROIT DIESEL

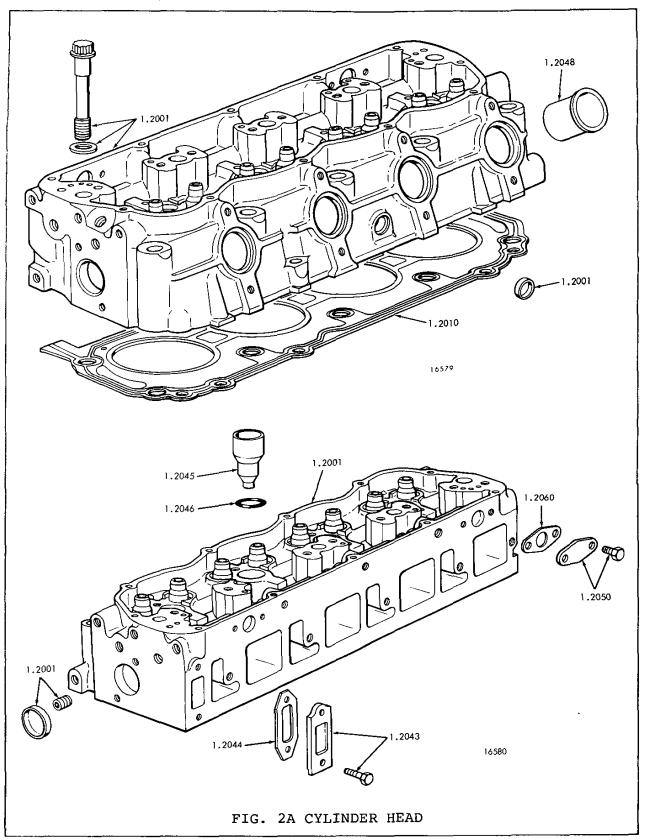
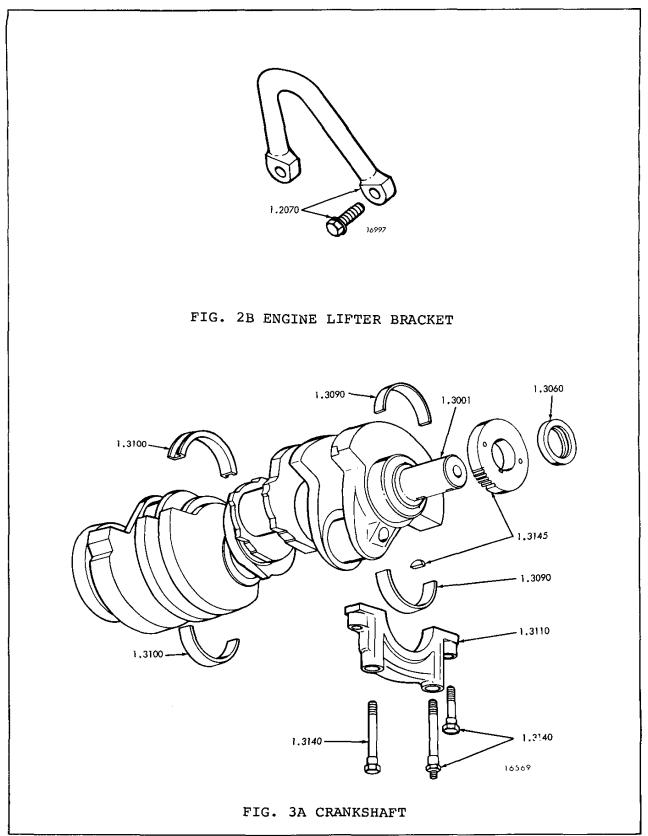


Fig. 2A of 1.0000

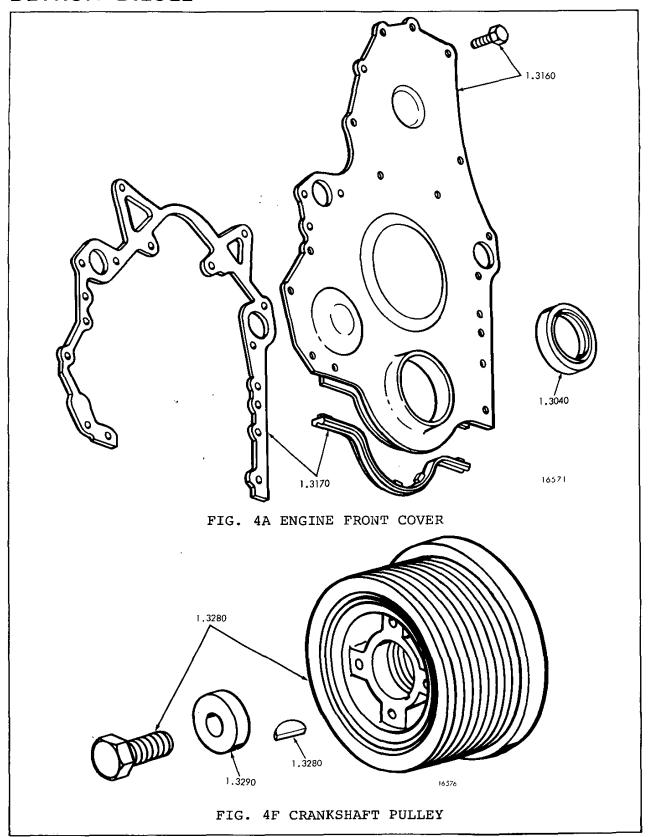
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Figs. 2B & 3A of 1.0000

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Figs. 4A & 4F of 1.0000

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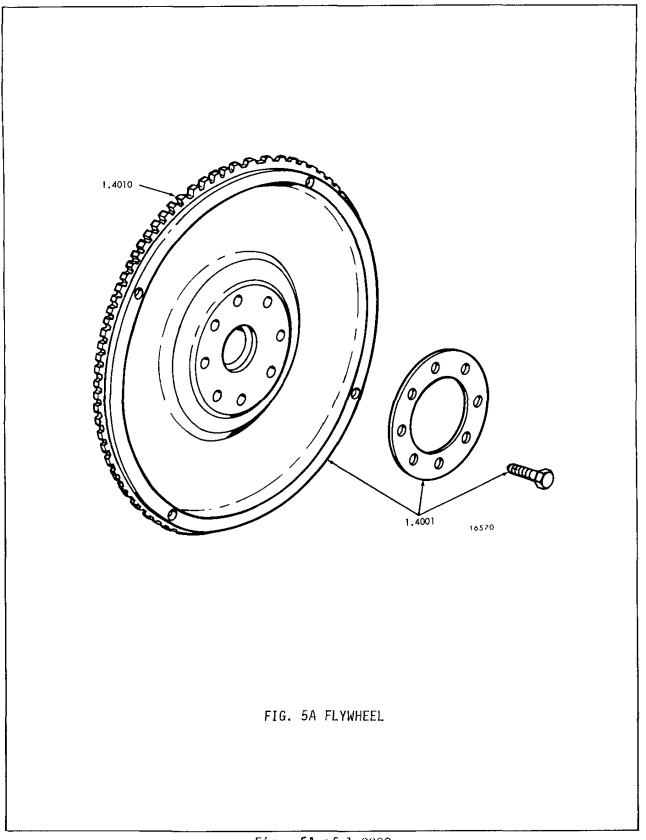


Fig. 5A of 1.0000

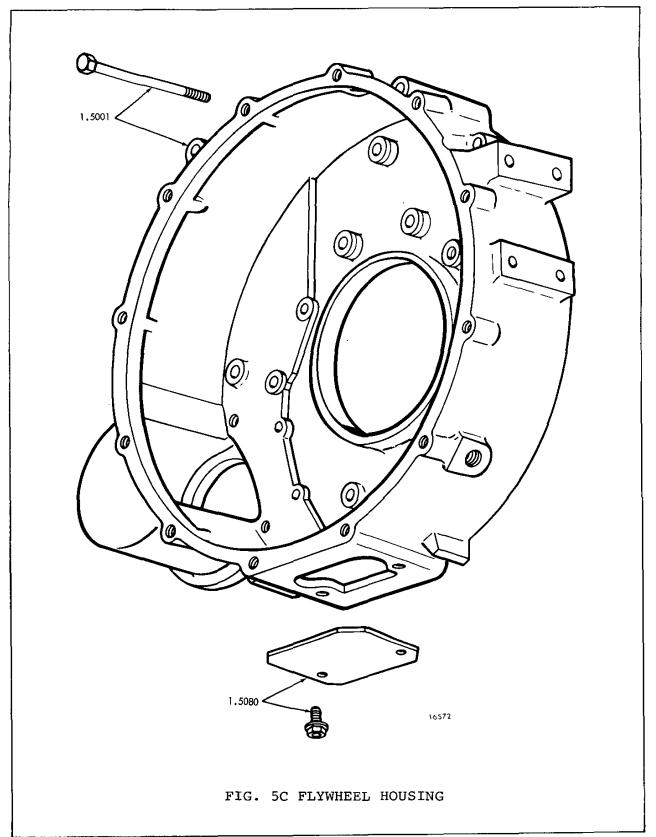
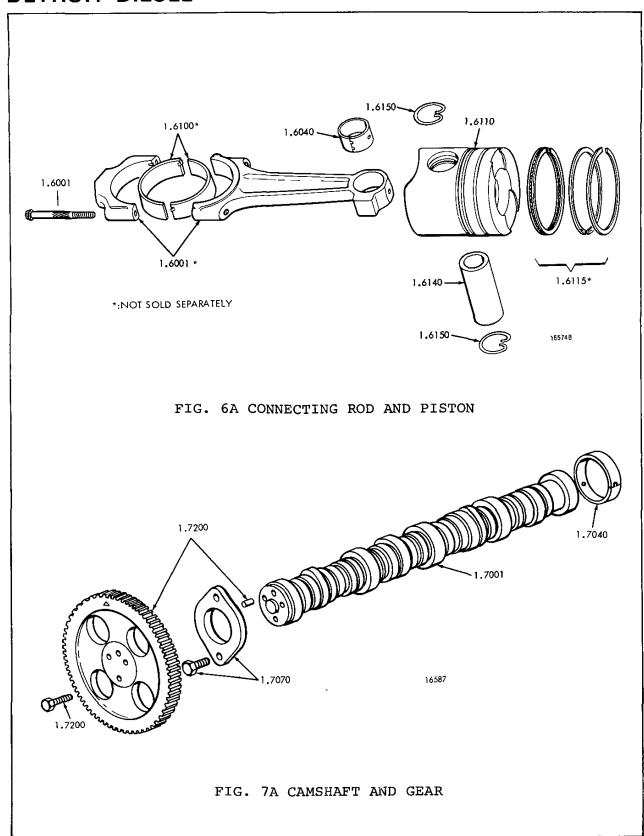


Fig. 5C of 1.0000 © 1979 General Motors Corp.

Oct., 1979



Figs. 6A & 7A of 1.0000

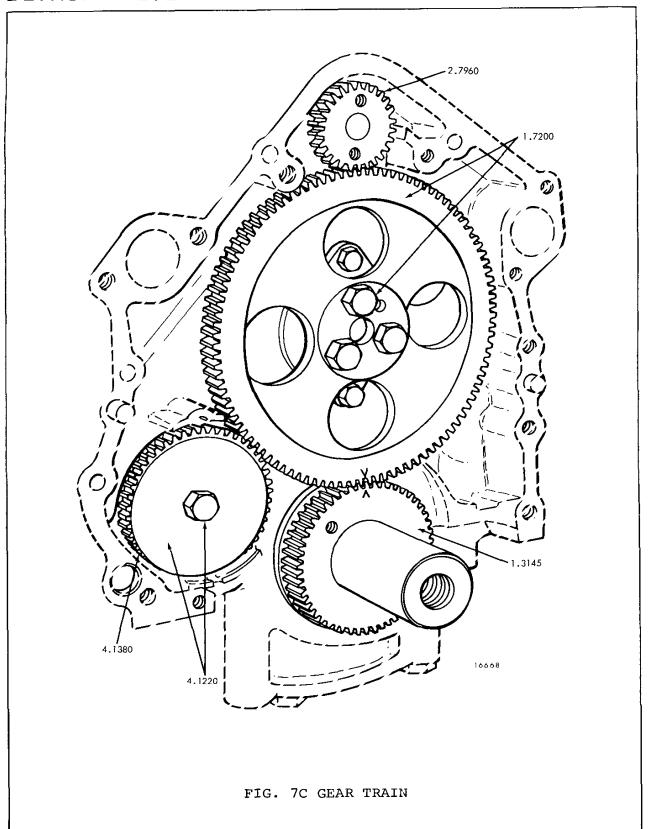


Fig. 7C of 1.0000

Oct., 1979

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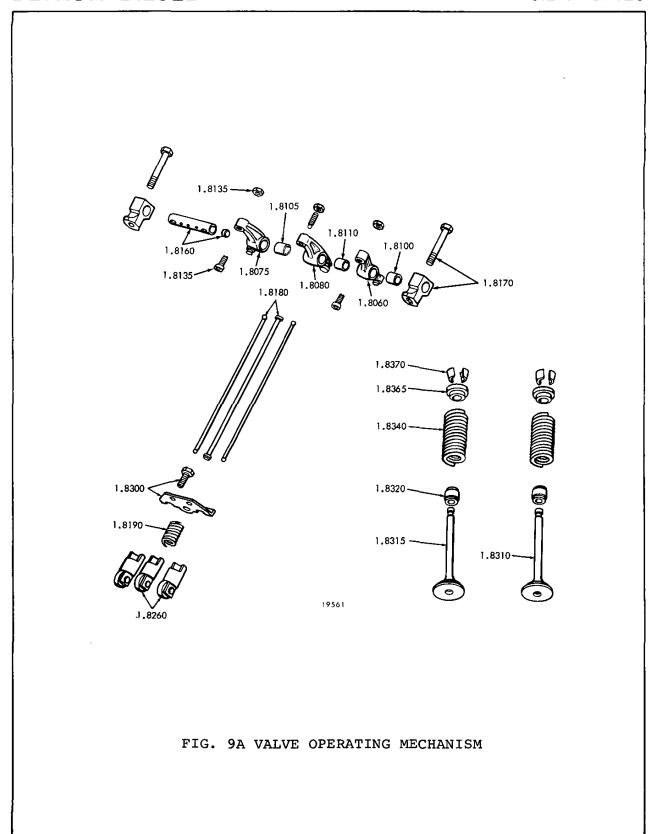
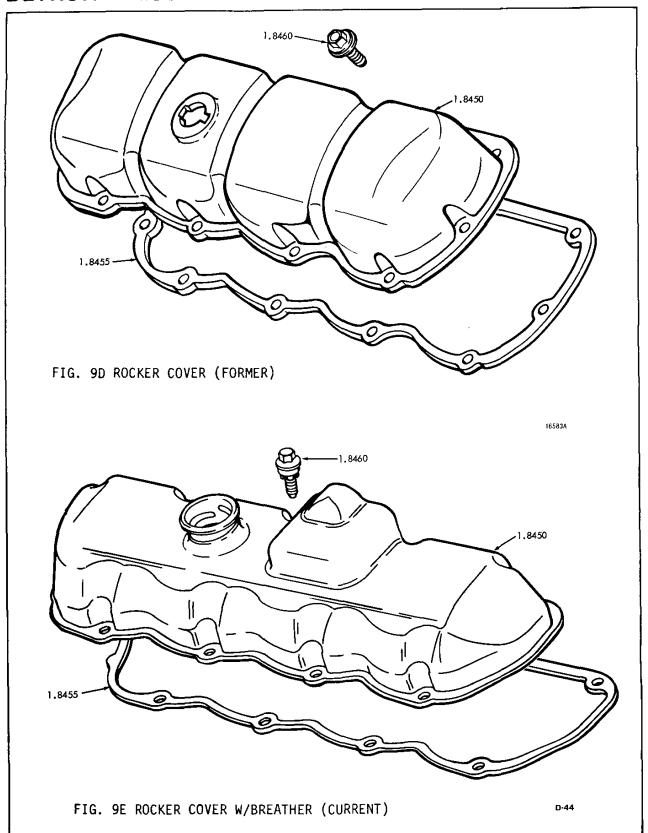


Fig. 9A of 1.0000

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Figs. 9D & 9E of 1.0000

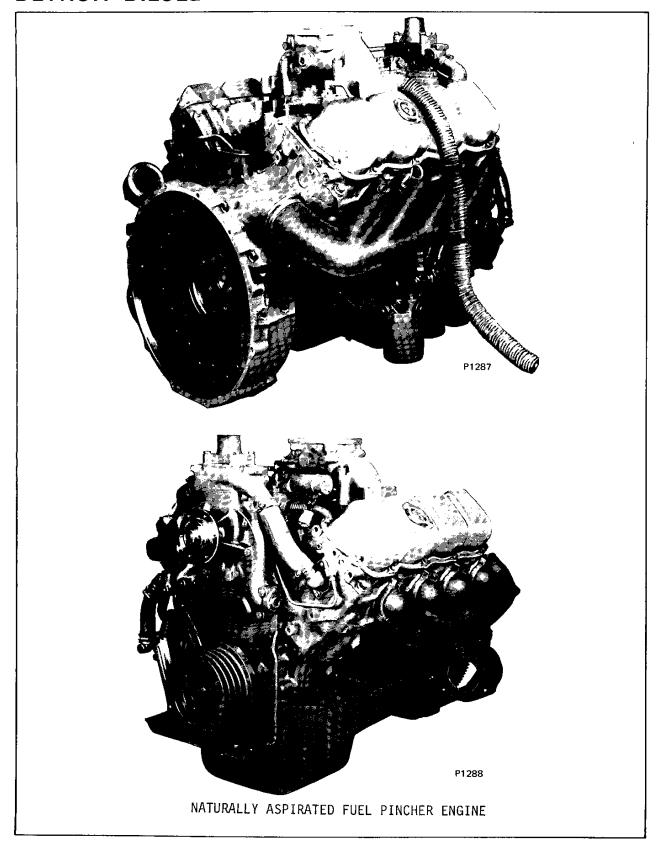


Fig. 10A of 1.0000

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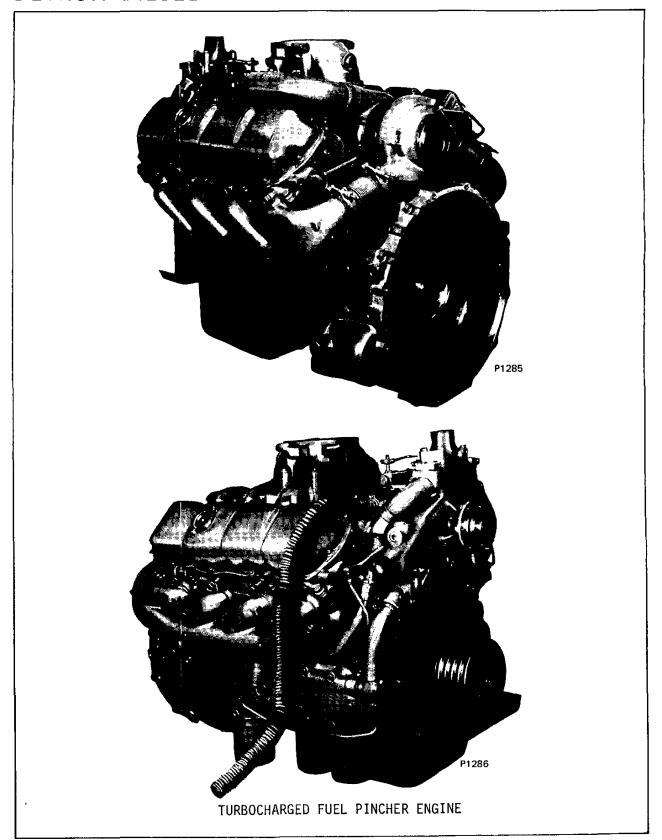


Fig. 10B of 1.0000

May, 1982

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FIG .	PART NUMBER	NAME AND DESCRIPTION	1 1			TYPE	s					
	1.1001 -	BLOCK, CYLINDER	ľ			1 1			-	-	1	
		FOR COMPONENTS OF CYLINDER BLOCK ASSEMBLIES REFER TO ASSEMBLY BREAKDOWN PAGE INDICATED.										
1A 1A 3A	8921470 - 8924787 8924786 8924140 8920062 8920422	BLOCK ASSY. (A1) BLOCK ASSY., SHORT (NON-TURBO) (B1) BLOCK ASSY., SHORT (TURBO) (B1) DRAINCOCK, 1/4" (12.9510) PIN, DOWEL 12 MM X 29 MM BOLT, M14 X 2.0 X 133.0 MM + WHEN ORDERING A REPLACEMENT BLOCK, INCLUDE (8) 8920062 DOWEL PIN AND (1) 8920422 BOLT.	Al Al 1 8	3								
	1.1002	GASKET KIT, ENGINE OVERHAUL					ļ					
		A GASKET KIT CONSISTS OF THE NECESSARY GASKETS FOR ONE COMPLETE ENGINE OVERHAUL.										
	8924126 8924117	GASKET KIT, TURBO	AI AI	R								
	1.1037	LINER, CYLINDER	Ì	1 1		1 1	Ì					
	8924716	SLEEVE, CYLINDER	Al	R								
	1.1055	COVER, CYLINDER BLOCK VALLEY	ł									l
1B	8920674 8924383	COVER (INCLUDES BREATHER HOLE) COVER ASSY. (INCLUDES REINFORCEMENTS AND BREATHER				! !						
1B 1B 1B	8925369 8920248 8920460 11504471	HOLE) COVER ASSY. (PLAIN) REINFORCEMENT (END) WASHER (BEVELED-SQUARE) BOLT, M8 X 1.25 X 25.0 MM FLANGED (12.9001) * EFF. WITH 8G-115922 FOR NON-TURBO ENGINES AND 8G-116264 FOR TURBO ENGINES.	1 2 4									
	1.1057	GASKET, CYLINDER BLOCK VALLEY COVER										
18 18 18	8920220 8920246 8920219	GASKET (FRONT END) GASKET (REAR END) SEAL (SIDE 552.0 MM L.)	1	1								
	1.1082	COVER, CYLINDER BLOCK TURBO MOUNTING HOLE										
1A 1A 1A	8920070 8923184 8922228	COVER (1.1082) SEAL (3.5001) BOLT, M10X1.5X25.0 MM (12.9001)	1				}					
l												

		1.1000 CYLINDER BLOCK										
					 	ço	LUMN		:			
FIG	PART NUMBER	NAME AND DESCRIPTION	A									
	1.1001 -	BLOCK, CYLINDER										
1A 3A 3A	8921470 8922093 8920064 8922200	BLOCK ASSY. (8V) BUSHING, OIL PUMP (4.1050) CAP, MAIN BEARING (1.3110) BOLT, MAIN BEARING M12 X 1.75 X	. 1							 		
3A	8920061	70.0 MM (1.3140)	. 10									
1A 1A	8924380 5121182 8924141 5115214	PLUG, 1/8" PIPE (12.9550) PLUG, 1/4" PIPE (2.4015) PLUG, 1/4" PIPE (12.9550) PLUG, 1/2" PIPE (12.9550) PLUG, 1/2" PIPE (12.9550)	. 1 . 1 . 1 . 2							[
1A	5103186 5103187 9427695 5142549	PLUG, 3/4" PIPE (12.9550) PLUG, 3/4" CUP (12.9550) PLUG, 3/4" PIPE (12.9550)	1 3									
1A 1A	9427694 9427469 9427702 141234	PLUG, 11/16" CUP (12.9320) PLUG, 1 1/2" CUP (12.9320) PLUG, 1 5/8" CUP (12.9320) PLUG, 3/8" (12.9550)	. 4					}				
			į									
											[
				1								

							1	COLI	MNL						
PART		ļΑ	i		ı i	1	• • •	Ĭ	j		i i		i	i	1
FIG NUMBER	NAME AND DESCRIPTION	}			1 1	- 1						١.,			
		l	в			- 1									
		1	-			- 1									
1.1001	BLOCK, CYLINDER	1				l									. 1
8924787	BLOCK ASSY., SHORT (NON-TURBO) (8V)	1				ĺ	!		ĺĺ						. 1
8924786	BLOCK ASSY., SHORT (TURBO) (8V)	Į	1	i		- 1									
8921470	BLOCK ASSY. (8V)	1 1	1		i l	Į			ì		1 1				.
8922093 8920064	BUSHING, OIL PUMP (4.1050)	1 5	5		1 1	- 1		1	l						
8922200	BOLT, MAIN BEARING M12X1,75X70.0	'			ll	- 1					l				. 1
	MM (1.3140)	10	10		1 I	ŀ		ŀ						i l	
8920061	BOLT, MAIN BEARING, M14X2.0X133.0 MM (1.3140)	9	9										'		
8920422	MM (1.3140)	"	"		{	- {		[ĺĺ		(. 1
34-4,22	MM (1.3140)		1												.
8924380	PLUG, 1/8" PIPE (12.9550)		1						l l					1 1	
5121182 8924141	PLUG, 1/4" PIPE (2.4015)		1		1 1	Į		ŀ				Ι,			
5115214	PLUG, 1/2" PIPE (12.9550)	2	2					1					'		
5103186	PLUG, 1/2" PIPE (12.9550)	2	2												, 1
5103187	PLUG, 3/4" PIPE (12.9550)		1			1									. [
9427695 5142549	PLUG, 3/4" CUP (12.9320)		3		ĺĺ	ĺ		ĺ	ĺ		i i			1 1	i
9427694	PLUG, 11/16" CUP (12.9320)		l i '		۱ ا	l									, 1
5139991	PLUG, 1 1/2" CUP	4	4					ļ					i		
9427702	PLUG, 1 5/8" CUP (12.9320)	2	2)	- 1		1))						,)
141234 8920062	PLUG, 3/8" (12.9550)		8	ĺ	۱ ۱				1				l		
8920070	COVER (1.1082)	1	-			- i		1				!			ı I
8923184	SEAL, OIL (COVER TO BLOCK) (3.5001)		1	ŀ					l l						
8922228 8922124	BOLT, M 10X 1.5X 25.0 MM (12.9001)		1	i	1	- 1		ĺ	i i						
8921712	SHELL SET (STD.) (1.3090)		4					ļ						, !	
8922948	SHELL SET, REAR (STD.) (1.3090)	1	1						i l						
8920175 5153014	GEAR, CRANKSHAFT TIMING (1.3145)	11	1 1			 		ļ]]]]				
5153914 8920139	KEY, 1/4"X1" WOODRUFF (1.7140)	1 8	18											, ,	1 1
8920087	BOLT, 7/16"-20X2.58" (1.6001)		16		I I										
8920078	BUSHING, CONNECTING ROD PISTON	٦	١,			1		ļ					Į		
8921714	PIN (1.6040) SHELL SET, CONNECTING ROD BEARING	8	8	Ì	ĺΙ	1		i	1 (ľ	1			
0021714	(1.6100)	8	8			Į									
8921605	PISTON, GRADE A (NON-TURBO)	ì	l			l		1					İ		
8922234	(1.6110)	J AR	,			J		ļ)]	ļ .]			j !	1
U322234	(1.6110)	AR			\	ļ		l							
8922236	PISTON, GRADE C (NON-TURBO)	ı	l									İ			
0021606	(1.6110)	AR		l		l							1	1 1	
8921606 8922235	PISTON, GRADE A (TURBO) (1.6110)	1	I AR	ĺ		1		ĺ	(1	ľ		
8922237	PISTON, GRADE C (TURBO) (1.6110)		AR		<u> </u>	1					1	ŀ			
8921721	RING SET, PISTON (STD.) (NON-TURBO)	8	١.					•					İ	ļ !	
8921722 8920101	RING SET, PISTON (STD.) (TURBO)	8	8 8	}	Į.	J		ļ]]]			j /	
8922977	PIN, PISTON (1.6140) RING, PISTON RETAINER (1.6150)	116			'				1						
8920167	CAMSHAFT (NON-TURBO) (1.7001)	1	}			- 1		l					ł		1 1
8920168 8922110	CAMSHAFT (TURBO) (1.7001)	١.	1					l							1
8920163	BEARING KIT (STD.) (1.7040)		1	ľ	1	- 1		l	1 1						1 1
11500714	BOLT, 8M X 1.25 X 20.0 MM (12.9001)	2	ż			ļ							l		, [
8920165	GEAR, CAMSHAFT (1.7200)	1	1]	j !	
8920172 8922036	PIN, DOWEL (25.0 MM L.) (1.7200)	1 3	1 3	ļ		J		J	j				J	j l	
8920196	COVER, OIL PUMP (4.1220)	1	1			l		l		'		Ì	ļ		
8922232	BOLT, M10 X 1.5 X 55.0 MM (12.9001)	i	1			<u> </u>		1						1	
8921173	GEAR, OIL PUMP DRIVE (45 TEETH)	.								l					
	(4.1380)	1	1	Ì	()	ł		l		1	}	1	ł	1 /	1 1
		-													1

	1.1000 CYLINDER BLOCK										
PART FIG NUMBER	NAME AND DESCRIPTION	A	В		¢	OLUI	MN .				
1.1001 -	BLOCK, CYLINDER (CONT'D)				}			}			
1.1001 - 8921203 8920407 8920463 8920405 5575086 18SP228	HUB (4.1380) SPRING, OIL PRESSURE REGULATOR (4.1690) VALVE, OIL PRESSURE REGULATOR (4.1700) PLUG, OIL PRESSURE RELIEF (4.1715) GASKET, OIL PRESSURE REGULATOR PLUG (4.2489) INSTRUCTION, CLEANING	2 2 2 2 1	1 2 2 2 1								
					-					ļ	

1.2000 CYLINDER HEAD

FIG .	PART NUMBER	NAME AND DESCRIPTION	1 5 3	1 5 5	9	1 7 0	2 1 4	TY	PES]	 		; ' 	 .].
	1.2001	- HEAD ASSY., CYLINDER								٠		. ;				
		FOR COMPONENTS OF CYLINDER HEAD ASSEMBLY REFER TO ASSEMBLY BREAKDOWN PAGE A1.													 	
2A 2A 2A 2A 2A 2A 2A	8922929 8926670 8924749 8924141 8923847 9421744 5139991 8921378 8921377	HEAD ASSY. (8V) HEAD ASSY. (8V) * PLUG, 1/8" PIPE (12.9550) PLUG, 1/4" PIPE (12.9550) PLUG, 1/4" PIPE (4.7001) PLUG, 7/16" DIA. CUP (12.9320) PLUG, 1 1/2" DIA. CUP (1.1001) BOLT, M15 X 2.0 X 130.0 MM 12 PT. HD. (12.9005) BOLT, M14 X 2.0 X 160.0 MM 12 PT. HD. (12.9005) WASHER, 25.4 MM O.D. (12.9190) * INSTALLED IN CENTER OF EACH CYLINDER HEAD FOR TURBO APPLICATIONS EXCLUDING MARINE ENGINES.	4 1 1 10	5 1 10 10	1 10 10	2 5 1 10	10									
	8924127 8924509 8924118	CONSISTS OF ALL GASKETS NECESSARY TO REPLACE ONE CYLINDER HEAD. GASKET KIT, TURBO GASKET KIT, TURBO GASKET KIT, TURBO GASKET KIT, NON-TURBO * GASKET KIT, NON-TURBO * CONSISTS OF ALL GASKETS NECESSARY TO REPLACE BOTH CYLINDER HEADS.	AR	AR AR			AR AR AR AR									
	1.2010	GASKET, CYLINDER HEAD COMPRESSION	Į										ļ]	ļ	
2A	8923848	GASKET	2	2	2	2	2									
	1.2043	COVER, CYLINDER HEAD WATER HOLE			i											
2A 2A	8920250 11500716	COVERBOLT, M8 X 1.25 X 25.0 MM (12:9001)	1 2	1 2	1 2	1 2	1 2									
	1.2044	GASKET, CYLINDER HEAD WATER HOLE COVER														
2A	8920083	GASKET	1	1	1	1	1	-								
	1.2045	TUBE, INJECTOR HOLE														İ
2A	5149724	TUBE KIT (INCLUDES SEAL RING IN 1.2046)	8	8	8	8	8							}		
	1.2046	RING, INJECTOR HOLE TUBE SEAL														
2A	8920390	RING (PART.OF KIT IN 1.2045)	4	4	4		4									
			ł		1 1	1 1	1	ł	1 1	- 1	١ ا	įĮ	Į	J		ı

AUG., 1985

PAGE 1 OF 1.2000

1.2000 CYLINDER HEAD

		1.2000 CYLINDER HEAD										
FIG .	PART	NAME AND DESCRIPTION	1 5 3	1 5 5	1 6 9	1 7 0	2 1 4	TYPES				•
	1 2048 .	SHIELD, EXHAUST PORT										
			8	8	8	8	8		1			
2A	8920181	SHIELD	ľ	°	0	۰				\ \		
	1.2050 -	COVER, CYLINDER HEAD GOVERNOR HOLE										
2A	8920397	COVER	2	2	٦	2	2					
2A	8923653 8920403	COVERBOLT, M8 X 1.25 X 20.0 MM	2	2	2 2	2	2		1 1	1 1	{ {	
	1262788	STUD, M8 X 1.25 X 20.0 MM X 15.0 MM	1	2	2	2	2					
	1.2060 -	GASKET, CYLINDER HEAD GOVERNOR HOLE COVER										
2A	8920399	GASKET	2	2	2	2	2					
			{	({	1			1 1	1 1	{ }	
										11		
				ł	l				11	1 1	\ \	
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1.2000 CYLINDER HEAD

1.2000 CYLINDER HEAD						
PARTFIG NUMBER NAME AND DESCRIPTION	 A			colum	IN	
1 2001 - HEAD ASSY CYLINDER						
1.2001 - HEAD ASSY., CYLINDER 1.2001 - HEAD ASSY., CYLINDER 2A 892039 HEAD ASSY. (8V) 2A 5149724 TUBE KIT, INJECTOR HOLE (INCLUDES 8920390 SEAL, RING (1.2046) 2A 9427698 PLUG, 1/8 PIPE (12.9550) 2A 9427698 PLUG, 1/2 DIA. CUP (1.2010) 2A 5139991 PLUG, 11/2' DIA. CUP (1.1001) 2A NOT PART OF ASSY., INSTALLED IN CENTER OF CYLINDER HEAD FOR TURBO APPLICATIONS EXCLUDING MARINE ENGINES.	1 4 4 1	B		COLUM		

1 2000A FNGINE, LIFTER BRACKET

		1.2000A	ENGINE, LIFTE	R BRACKET											
. FIG .	PART NUMBER	, , , NAM	E AND DESCRIP	TION	2 1 4	2 2 3	2 2 5		TY	PES					D
	1.2070	BRACKET, E	IGINE LIFTER-F	RONT				1		1 1	l	((1	
28	8921221 8924521 8924298 11500714 11500724 11505281	BRACKET BRACKET BOLT, M8X1.2 BOLT, M10X1 BOLT, M10X1	5X20.0 MM (12 50X30.0 MM (1 50X30.0 MM (1	.9001) 2.9001) 1.1070)		1 3 2	1 2	i.						 - 	
28	8920419 11500191 11500192 11501066	LOCKWASHER	i, M8 (12.9200) i. M10 (12.9200)	6PL	4	3 2 3	2				:	<u> </u>			
	1.2080	BRACKET, E	NGINE LIFTER-F	REAR	1	}			1		1		\	1	
	8924269 11505281 5132147	BOLT, M10 X	1.50 X 30 MM (11.1070) (3.4030)	1	2 4 4	2 4 4							}	
] 							
	·														
														1	

1.3000 CRANKSHAFT, OIL SEALS AND STABILIZERS

						. TYPES				
FIC	PART	NAME AND DESCRIPTION	7	1					1 1	Ï
. FIG .	NOMBER	NAME AND DESCRIPTION	4	8			i i			- 1
			1	2	1 1 1	1 1	} }		1 1	
	1.3001	CRANKSHAFT ASSY.					1 1		1 1	l
3A	8920193 -	CRANKSHAFT	1.						1 1	
3A	8922124	CRANKSHAFT+ NOT SERVICED, USE 8922124	l] 1]]]]]	
		CRANKSHAFT AND TO INSURE								
		INTERCHANGEABILITY (1) FLYWHEEL ASSY. 8922128, 8922129 OR								
		8922109 (1) FLEX PLATE 23013495 OR 23013496 AND (1) SCUFF PLATE								
		8922125 MUST BE USED.								ĺ
	1.3040	SEAL, CRANKSHAFT OIL-FRONT							1	
4A	8920200	SEAL (SINGLE LIP)	1	1		1 1	ĺĺ		1 1	
	1.3060 -	SEAL, CRANKSHAFT OIL-REAR	ļ			1 1				
	8923654	SEAL (SINGLE LIP O.S. USE WITH 8923655 SLEEVE)		١,	1 1 1 1	1 1		1 1	1 1	- 1
3A	8921301	SEAL (SINGLE LIP, STD.)	1	'						
			'	1						
	1.3066 -	SLEEVE, CRANKSHAFT REAR OIL SEAL		İ	1 1 1 1	1 1	1	1	1 1	ł
	8923655	SLEEVE (WITH OVERSIZE SEAL)	AR	1	1 1 1					
	4 0000									
	1.3090	SHELL, CRANKSHAFT MAIN BEARING		ľ	1 1 1 1				1 1	
		A SHELL SET CONSISTS OF ONE UPPER AND ONE LOWER BEARING SHELL.								
3A	8921712	SHELL SET (STD.)	4	4						
3A	8922948 8924704	SHELL SET, REAR (STD.) SHELL SET (.010" U.S. I.D.)	I AR I	AR						
	8924705	SHELL SET, REAR (.010" U.S. I.D.)	AR	AR						
	1 3110	CAP, CRANKSHAFT MAIN BEARING]						
				_						
3A	8921778 8920064	CAP (FINISHED)	5	5						
	1.3140 -	BOLT, CRANKSHAFT MAIN BEARING CAP							1 1	ĺ
3A	8922200	BOLT, M12 X 1.75 X 70.0 MM	10	10	1 1 1 1					
3A 3A	8920061 8920422	BOLT, M14 X 2.0 X 133.0 MM	9	9						
									1 1	ĺ
	1.3145 -	GEAR, CRANKSHAFT TIMING	.							
3A,7C 3A	8920175	GEAR (R.H. ROTATION)	1	1						
JA	5153914	KEY, 1/4" X 1" WOODRUFF (1.7140)	1	1					1 1	ĺ
										1
			! I		1 1 1	1 1 1	1	ı		ı

1 3000A CRANKSHAFT FRONT COVER

		1.3000A CRANKSHAFT FRONT COVER													
FIG .	PART	NAME AND DESCRIPTION	1 3 3	1 3 7	1 4 2	1 4 3		TYPI	:S						
	1.3160 -	COVER, CRANKSHAFT FRONT))			Ì	1	. 1	1	
4A 4A 4A 4A	8920274 8922788 8924647 11500714 8922228	COVER COVER COVER BOLT, M8X1.25X20.0 MM (12.9001) BOLT, M10X1.25X25.0 MM (12.9001)	. 3	1	1 3	1 3 2									
	1.3170	GASKET, CRANKSHAFT FRONT COVER		1					Ì	Ì	Ì				
4A 4A	8920273 8923090 8925360	GASKET SEAL ADAPTOR, OIL PAN SEAL (4.7030) FOR USE WITH ISOLATED OIL PAN 8922782 AND OLD STYLE FRONT COVER 8922074.	. [1	1	1	1				ي					
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1.3000C CRANKSHAFT PULLEY

	1.3000C CRANKSHAFT PULLEY										
FIC	PART NUMBER	i i	 Î	_. T i	 I	TYPI	ES	 	 I I	 I I	· · · · i
	NUMBER NAME AND DESCRIPTION										}
	1.3280 - PULLEY, CRANKSHAFT	ł		} }		{ }				11	$ \cdot $
4F	8921002 PULLEY ASSY. (199.6" DIA., 4])	}		
4F	GROOVES)	:									
	1.3290 - RETAINER, CRANKSHAFT PULLEY										
4F 4F	8920098 RETAINER (WASHER)	: :									
						11				1 1	
		1				1 1	1				
								1 1			ŀ
				ŀ							
					1						
		•	' '	,	•	1 1	'	' '	'	, ,	1

1.4000A FLYWHEEL

		1.4000A FLYWHEEL													
FIG .	PART NUMBER	NAME AND DESCRIPTION	9 6 4	9 6 7	9 6 8	1 0 0 6	1 0 2 2	1 0 2 9	1 0 3 1	1 0 3 2	1 0 3 3	1 0 4 7	1 0 5 0		
	1.4001	- FLYWHEEL ASSY.											ľ		•
		INCLUDES GEAR IN 1.4010 NOTE: ALL FLYWHEEL ASSYS. ARE CHAMFERED.													
555555555 55 5 5 5	NPN 8920432 8920434 8920436 8921822 8923129 8924829 8924887 8925016 8926430 8922125 8920177 8922546 8922547 8921862 8920162	FLYWHEEL ASSY. (CUSTOMER FURNISHED) @ FLYWHEEL ASSY. (SAE #2) % FLYWHEEL ASSY. (SAE #3) \$ FLYWHEEL ASSY. (SAE #2) FLYWHEEL ASSY. (SAE #2) FLYWHEEL ASSY. (SAE #3) FLYWHEEL ASSY. (SAE #3) FLYWHEEL ASSY. (SAE #3) FLYWHEEL ASSY. (SAE #3) FLYWHEEL ASSY. (SAE #3) FLYWHEEL ASSY. (SAE #3) FLYWHEEL ASSY. (SAE #3) FLYWHEEL ASSY. (SAE #3) FLYWHEEL ASSY. (SAE #2) **PLATE, SCUFF WASHER, 22.0 MM X 15.0 MM I.D. BOLT, M12X 1.75 X 83.0 MM (W/NYLON PATCH) BOLT, M12 X 1.75 X 83.0 MM (W/NYLON PATCH) BOLT, M12 X 1.75 X 50.0 MM (W/NYLON PATCH) @ NOT SERVICED, USE 8922128 FLYWHEEL ASSY. AND TO INSURE INTERCHANGEABILITY USE (1) 8922124 CRANKSHAFT AND (1) 8922124 CRANKSHAFT, (1) 23013495 FLEX PLATE AND (1) 8922125 SCUFF PLATE. \$ NOT SERVICED, USE 8922109 FLYWHEEL ASSY. AND TO INSURE INTERCHANGEABILITY USE (1) 8922124 CRANKSHAFT, (1) 23013495 FLEX PLATE AND (1) 8922125 SCUFF PLATE. \$ NOT SERVICED, USE 8922109 FLYWHEEL ASSY. AND TO INSURE INTERCHANGEABILITY USE (1) 8922124 CRANKSHAFT, (1) 23013496 FLEX PLATE AND (1) 8922125 SCUFF PLATE. # MUST BE USED WITH CRANKSHAFT 8920193. * MUST BE USED WITH CRANKSHAFT 8920193.	1	1 1 1 8	1 1 1 8	8 8	1 8	1 8 8	1	1 8 8	1 8 8	8	1		
	1.4010	- GEAR, FLYWHEEL RING													
		NOTE: ALL RING GEARS ARE CHAMFERED.											1.		
5A 5A	5116302 5116301	GEAR (138 TEETH) GEAR (126 TEETH)	1	1	1	1		1	1	1	1	1			
	1.4085	. PLATE, FLYWHEEL FLEXIBLE COUPLING	1												
	8924874 23013496 23013495 23017227 8925711 8925712	5 PLATE, FLEX		1	1								1 1 1 8		

FEB., 1985 PAGE 1 OF 1.4000A

1.5000A FLYWHEEL, HOUSING

.FIG .	PART NUMBER	NAME AND DESCRIPTION	5 9 7		6 3 8	6 5 5	TYP	ES				
	1.5001	- HOUSING ASSY,, FLYWHEEL								} }		
5C 5C 5C	8922277 8920166 8922276 8923218 8922990 8924348 5106899 5173334	B HOUSING (SAE #2) HOUSING (SAE #2) HOUSING (SAE #3) HOUSING (SAE #3) HOUSING (SAE #3) HOUSING (SAE #3) PLUG, TIMING HOLE PLUG, TIMING HOLE PLUG, TACH SENSOR HOLE PLUG, 1/2" PIPE (12.9550) # BOLT, 10P X 1.5 X 130.0 MM (12.9001) BOLT, M10 X 1.5 X 45.0 MM (12.9001) BOLT, M10X1.5X45.0 MM 12 PT. HD. (12.9005) BOLT, M10 X 1.5 X 45.0 MM 12 PT. HD. (3.1085) & NOT SERVICED, USE SECOND HOUSING SHOWN IN SAME TYPE AND INCLUDE 13-8922168 BOLTS. # USED WITH 8920166 OR 8920255 HOUSINGS ONLY.		1 1 1 4 13	1 1 9 4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
	1.5010 8920091	GASKET, FLYWHEEL HOUSING	1	1	1	1			ļ		Ì	
	1.5080	COVER, FLYWHEEL HOUSING INSPECTION HOLE										
5C 5C	8921300 11500420	COVER	1 2	1 2		1 2						} }

1.5000B FLYWHEEL HOUSING ADAPTOR	ŧ									
PART .FIG NUMBER NAME AND DESCRIPTION	4 5			 	TYPES					
		7							ļ ļ	
1.5130 - ADAPTOR, FLYWHEEL HOUSING					- 1					
8923239 ADAPTOR (111.16 MM I.D.)	1 1 1 1	111	. 6				 			
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APRIL, 1984

PAGE 1 OF 1.5000B

1.6000 CONNECTING ROD AND PISTON

								TYPI	ES							
FIG .	PART NUMBER	NAME AND DESCRIPTION	8 8	1 8 9	2 7 1											
	1.6001 -	CONNECTING ROD ASSY.									İ					
		QUANTITIES SHOWN ARE PER CYLINDER. A ROD ASSEMBLY INCLUDES CAP WHICH IS NOT SOLD SEPARATELY, PLUS ITEMS IN 1.6001 AND 1.6040.									Ī					
6A 6A	8920139 8920087	ROD ASSY. BOLT, 7/16"-20 X 2.58"	1 2	1 2	1 2											
	1.6040 -	BUSHING, CONNECTING ROD PISTON PIN														
6A	8920078	BUSHING	1	1	1											
	1.6100 -	SHELL, CONNECTING ROD BEARING														
		A SHELL SET CONSISTS OF ONE UPPER AND ONE LOWER BEARING SHELL.	ļ				ı									
6A 6A	8921714 8924703	SHELL SET (STD.) SHELL SET (.010" U.S. I.D.)	1 AR	1 AR												
	1.6110 -	PISTON ASSY.														
6A	8921605	PISTON, GRADE A (NON-TURBO; 18.8 TO 1 RATIO, WHITE DOT IDENTIFICATION) (CYL. BORE		,									;	, 	į	
6A	8922234	108.000-108.0 16 MM) PISTON, GRADE B (NON-TURBO; 18.8 TO 1 RATIO, BLACK DOT IDENTIFICATION) (CYL. BORE	1													
6A	8922236	108.017-108.0 33 MM) PISTON, GRADE C (NON-TURBO; 18.8 TO 1 RATIO, YELLOW DOT IDENTIFICATION) (CYL. BORE 108.034-108.050 MM)														
	8928520	PISTON, GRADE D (NON-TURBO, 18.8 TO 1 RATIO) (CYL. BORE 108.051-108.067 MM)						ļ								
6A	8925818	PISTON, GRADE A (TURBO; 17.4 TO 1 RATIO, WHITE DOT IDENTIFICATION) (CYL. BORE 108.000-108.016 M M)														
6A	8925819	PISTON, GRADE B (TURBO; 17.4 TO 1 RATIO, BLACK DOT IDENTIFICATION) (CYL. BORE 108.017-108.033 M M)		1		ļ										
6A	8925820	PISTON, GRADE C (TURBO; 17.4 TO 1 RATIO, YELLOW DOT IDENTIFICATION) (CYL. BORE 108.034-108.050 MM)											: 			
	8928521	PISTON, GRADE D (TURBO, 17.4 TO 1 RATIO) (CYL. BORE 108.051-108.067 MM)		1												
	8926481	PISTON, GRADE A (TURBO) 16.4 TO 1 RATIO, WHITE DOT IDENTIFICATION) (CYL. BORE 108.000-108.016 MM)			1											l
	8926482	PISTON, GRADE B (TURBO; 16.4 TO 1 RATIO, BLACK DOT IDENTIFICATION) (CYL. BORE 108.017-108.033 MM)			1											
	8926483	PISTON, GRADE C (TURBO; 16.4 TO 1 RATIO, YELLOW DOT IDENTIFICATION) (CYL. BORE 108.034-108.050 MM)			1											
			1	1	1	1	1 1		ı	Į.	- 1	I		, 1	, ,	ı

1.6000 CONNECTING ROD AND PISTON

FIG	PART . NUMBER	NAME AND DESCRIPTION	1 8 8	1 8 9	2 7 1		TYI	ts .				
	1.6110 -	PISTON ASSY. (CONT'D)						1	ļ ļ			
	8922451 8922452 8922453 8925815 8925816 8925817 8926484	PISTON, .005" O.S. (NON-TURBO; 18.8 TO 1 RATIO) PISTON, .010" O.S. (NON-TURBO; 18.8 TO 1 RATIO) PISTON, .020" O.S. (NON-TURBO; 18.8 TO 1 RATIO) PISTON, .005" O.S. (TURBO; 17.4 TO 1 RATIO) PISTON, .010" O.S. (TURBO; 17.4 TO 1 RATIO) PISTON, .020" O.S. (TURBO; 17.4 TO 1 RATIO) PISTON, .020" O.S. (TURBO; 17.4 TO 1 RATIO) PISTON, .005" O.S. (TURBO; 16.4 TO 1 RATIO)	AR AR AR	AR AR AR	AR							
	8926485 8926486	PISTON, .010" O.S. (TURBO; 16.4 TO 1 RATIO)			AR AR							
	1,6115 -	RING SET, PISTON RING SET CONSISTS OF SUFFICIENT RINGS FOR (1) PISTON.										
	8921721 8921722 8923779 8923780 8923917 8923918 8923919 8923920	RING SET (STD.) (NON-TURBO) RING SET (STD.) (TURBO) RING SET (.005" O.S.) (NON-TURBO) RING SET (.005" O.S.) (TURBO) RING SET (.010" O.S.) (NON-TURBO) RING SET (.010" O.S.) (TURBO) RING SET (.020" O.S.) (NON-TURBO) RING SET (.020" O.S.) (NON-TURBO) RING SET (.020" O.S.) (TURBO)	1 1 1 1	1 1 1	1 1 1							
	1.6140 -	PIN, PISTON										
6A	8920101 8925717	PIN (NON-TURBO AND TURBO)	1	1	1	'					į	
	1.6150 -	RETAINER, PISTON PIN			}	<u> </u>		'				
6A	8922977	RING, PISTON RETAINER		2	2							
								:				
		•										

1.7000 CAMSHAFT AND GEAR TRAIN

		1.7000 CAMSHAFT AND GEAR TRAIN								
FIG	PART NUMBER	NAME AND DESCRIPTION	2 4 0	2 4 1		TYPI	s			
	1 7001 -	CAMSHAFT ASSY.								
	1.7001	CAMSHAFT KITS INCLUDE PIN IN 1.7200.								
7A	8923733	CAMSHAFT KIT (NON-TURBO)	1						i	
7A	8923734	CAMSHAFT KIT (TÜRBO)		1						
	1.7040 -	BEARING, CAMSHAFT INTERMEDIATE	Ì							
		A BEARING KIT CONSISTS OF (5) FIVE BEARINGS.								
	8922110 8922633 8922394	BEARING KIT (STD) BEARING KIT (.010" O.S.) BEARING KIT (.020" O.S.)	AR							
	1.7070 -	PLATE, CAM AND BALANCE SHAFT THRUST								
7A 7A	8920163 11500714	PLATE	1 2	1 2						
	1.7200 -	GEAR, CAMSHAFT AND BALANCE SHAFT								
7A,C 7A 7A,C	8920165 8920172 8922036	GEAR PIN, DOWEL (25.0 MM L.) BOLT, M10 X 1.5 X 40.0 MM (12.9001)		1 1 3						
77,,0	0022000	3021, III 0 X 1.0 X 10.0 IIIII (12.300 I) 1111111								
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1.8000 VALVE AND INJECTOR OPERATING MECHANISM

FIG .	PART	NAME AND DESCRIPTION	1 5 5	2 1 4			. TYP 	ES .						
	1.8060	- ARM ASSY., EXHAUST VALVE ROCKER]											
		AN ARM ASSY. INCLUDES BUSHING IN 1.8100.												
9A 9A	8921149 8923829	ARM ASSY.	8	8										
	1.8075	- ARM ASSY., INTAKE VALVE ROCKER											ļ	
		AN ARM ASSY. INCLUDES BUSHING IN 1.8105.										}		
9A 9A	8921148 8923827	ARM ASSY		8								 		
	1.8080	- ARM ASSY., INJECTOR ROCKER												
		AN ARM ASSY. INCLUDES BUSHING IN 1.8110.	i											
9A 9A	8922172 8923831	+ ARM ASSY. ARM ASSY. + NOT SERVICED, USE 8923831.	8	8										
	1.8100	- BUSHING, EXHAUST VALVE ROCKER ARM-LARGE												4
9A	8923977	BUSHING (1.8110)	8	8										
	1.8105	- BUSHING, INTAKE VALVE ROCKER												
9A	8923977	BUSHING (1.8110)	8	8										
	1.8110	- BUSHING INJECTOR ROCKER ARM-LARGE								Ì				
9A	8923977	BUSHING	8	8										
	1.8135	- SCREW, ROCKER ARM ADJUSTING												
9A	8921259	SCREW, M10 X 1.50 X 37.3 MM (INJECTOR)	24											
9A	8923845	SCREW, M10 X 1.50 X 37.3 MM (INJECTOR)		۱ ۾										
9A 9A	8923834 11501052	SCREW, M12 X 1.0 X 38.6 MM	1	16	 									
9A 9A	8923844 8923835	ADJUSTING) NUT, M10 X 1.50 X 4 (INJECTOR) NUT, M12 X 1.0 (12.9120)		8 16										
														4
			1	1		 		. 1	,	•				

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1.8000 VALVE AND INJECTOR OPERATING MECHANISM

						TYPES	S		
FIG	PART NUMBER	NAME AND DESCRIPTION	5 5	2 1 4					
	1.8160	- SHAFT ASSY., ROCKER	}		1 1 1			1 1	} } }
		A SHAFT ASSY, INCLUDES PLUG IN 1.8160.							
9A 9A 9A	8920478 5151272 8924385	SHAFT ASSY. PLUG + PLUG + OPTIONAL TO PLUG 5151272.	8	8 8 8					
	1.8170	- BRACKET, ROCKER SHAFT	,				} }		
9A 9A 9A	8920465 8923843 8920476	BRACKET BRACKET BOLT, M10 X 1.50 X 70.0 MM (12 PT. HD.)]	16					
	1.8180	- ROD, PUSH		\ \ \	1 1 1			1 1	1 1 1
9A 9A 9A	8921255 8923836 8920469	ROD, VALVEROD, VALVEROD, INJECTOR		16 8					
	1.8190	- SPRING, PUSH ROD							
9A	8921253	SPRING	8	8					
	1.8260	- FOLLOWER ASSY., CAM							
9A 9A	8923576 8922962	FOLLOWER ASSY. (INJECTOR)	8 16	8 16					
	1.8265	- ROLLER SET, CAM FOLLOWER		;	1 1 1		1 1	1	1 1 1
	8923814 8923813	ROLLER SET (INJECTOR) ROLLER SET (VALVE)		AR AR					
	1.8300	- GUIDE, CAM FOLLOWER							
9A 9A	8921178 11504505	GUIDE		8 16				}	
	1.8310	- VALVE, EXHAUST							
	5149742	VALVE (INCLUDES LOCKS) (PKG.)	8	8					
	1.8315	- VALVE, INTAKE							
	5149743	VALVE (INCLUDES LOCKS) (PKG.)	8	8					
	1.8320	- GUIDE, EXHAUST VALVE		(
	5199914	INSTALLER, INTAKE AND EXHAUST							
9 A	5100699	VALVE SEAL (2 VALVE HEAD) SEAL (2 VALVE HEAD) (INTAKE AND EXHAUST)		16					
			l			1 1			

1.8000 VALVE AND INJECTOR OPERATING MECHANISM

		1.8000 VALVE AND INJECTOR OPERATION	NG N	ИEС	HAN	ISM									
FIG	PART NUMBER	NAME AND DESCRIPTION	1 5 5					TY	PES .						
	1.8325 -	SLEEVE, VALVE GUIDE										}		1	ļ
	8922711	SLEEVE (COPPER)	AR	AR			ĺ								
	1.8340 -	SPRING, EXHAUST VALVE	ĺ	ĺ	ĺ		İ							-{	1
9A	8921111	SPRING ASSY. (INTAKE AND EXHAUST)	16	16			}							ļ	<u> </u>
	1.8365 -	ROTATOR, VALVE	ļ	ļ	ļ,]]			})		<u> </u>
9A	8922369	ROTATOR (VALVE INTAKE AND EXHAUST)	16	16											
	1.8370 -	LOCK, EXHAUST VALVE SPRING			'										
9A	838029	KEY (INTAKE AND EXHAUST)	32	32											}
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1.8000A ROCKER COVER

FIG .	PART NUMBER	NAME AND DESCRIPTION	4 5 5	4 9 8	5 2 3		TYPES .				
	1,8450 -	COVER ASSY., ROCKER						1 1	İ		
9D 9E	8924128 8926405	COVERCOVER ASSY. (W/BREATHER)	2	2	2						
	1.8455 -	GASKET, ROCKER COVER		<u> </u>							
9D	8920271 8926675	GASKET		2	2						
	1.8460 -	BOLT, ROCKER COVER									
9D 9D 9E	103341 11504505 8926284 8926674	WASHER, 3/8" (12.9190) BOLT, M8 X 1.25 X 20.0 MM (12.9001) BOLT ASSY., M8X1.25X20.0 MM BOLT & WASHER ASSY., M6X1.0X27.0 MM	22 22	22	16						
	1,8500 -	PLATE, OPTION AND ACCESSORY NAME									
		FOR A REPLACEMENT EMISSION LABEL CONTACT YOUR LOCAL DISTRIBUTOR AND PROVIDE ENGINE SERIAL NUMBER.									
	8924820 + 15SP-48 8922329 8927763 8924713	- LABEL ASSY., OPTION LAMINATE, PLASTIC DECAL, ROCKER COVER (FUEL PINCHER) DECAL, ROCKER COVER (8.2 L DIESEL) DECAL, ROCKER COVER MARINE + NOT SERVICED BY DDA. FOR REPLACEMENT LABEL CONTACT YOUR LOCAL DISTRIBUTOR AND PROVIDE ENGINE SERIAL NUMBE R.	AR AR	AR	AR						
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GROUP NOMENCLATURE

1.0000	ENGINE (less major assemblies)	5.0000	COOLING SYSTEM (CONT'D)
1.1000	Cylinder Block	5.4000B	Fan Shroud
1,1000A	Air Box Drains	5.5000A	Heat Exchanger or Keel Cooling
1.2000	Cylinder Head	5.6000A	Raw Water Pump
1.2000A	Engine Lifter Bracket	5.7000A	Water Filter
1.3000	Crankshaft, Oil Seals and Stabilizers		
1.3000A	Crankshaft Front Cover	6.0000	EXHAUST SYSTEM
1.3000B	Vibration Damper	6.1000A	Exhaust Manifold and/or Connections
1.3000C	Crankshaft Pulley	6.2000A	Exhaust Muffler and/or Connections
1.3000D	Crankshaft Pulley Belt	000071	
1.4000A	Flywheel	7.0000	ELECTRICAL-INSTRUMENTS
1.5000A	Flywheel Housing	7.1000A	Battery Charging Generator
1.5000B	Flywheel Housing Adaptor	7.2000A	Battery Cables
1.6000	Connecting Rod and Piston	7.2000B	Automatic Starting
1.7000	Camshaft and Gear Train	7.2000B	Automatic Starting (Twin and Quad)
1,7000A	Balance Weight Cover	7.3000A	Starting Motor
1.7000B	Accessory Drive	7.4000A	Instruments
1.8000	Valve and Injector Operating Mechanism	7.4000A	Instruments (Twin and Quad)
1.8000A	Rocker Cover	7.4000B	Tachometer Drive
1.0000	HOCKE, GOVE	7.4000B	Tachometer Drive (Twin and Quad)
2.0000	FUEL SYSTEM	7.4000C	Shutoff, Alarm and O.S. Governor
2.1000A	Fuel Injector	7.4000C	Shutoff, Alarm and O.S. Governor (Twin and Quad)
2.2000	Fuel Pump	7.5000A	Power Generator
2.2000A	Fuel Pump Drain	7.6000A	Control Cabinet
2,3000A	Fuel Filter and Strainer	7.6000A	Control Cabinet (Twin and Quad)
2.3000A	Fuel Filter and Strainer (Twin and Quad)	7.7000A	Wiring Harness
2.4000	Fuel Manifold and/or Connections	7.8000A	Air Heater
2.4000A	Dual Fuel System	7.8000A	Air Heater (Twin and Quad)
2.5000A	Fuel Lines and Fuel Cooler	7.1000A 7.10000A	
2.5000A 2.5000A	Fuel Lines and Fuel Cooler (Twin and Quad)	7.10000A	Trydraune Governor Coronolo
_	Fuel Tank	8.0000	POWER TAKE-OFF
2.6000A 2.6000B		8.1000A	Power Take-off and/or Clutch
	Electric Governor Mechanical Governor	8.1000A 8.1000A	Power Take-off and/or Clutch (Twin and Quad)
2.7000A		8.3000A	Torque Converter
2.8000A	Hydraulic Governor		Torque Converter (Twin and Quad)
2.9000	Injector Controls	8.3000A 8.3000B	Transmission Lines
2.9000	Injector Controls (Twin and Quad)	0.30000	Hallstitission Circs
2,9000A	Throttle Controls	9.0000	TRANSMISSION AND PROPULSION
2.9000A	Throttle Controls (Twin and Quad)	9.0000 9.1000A	Hydraulic Marine Gear
2 0000	ALD CVCTCM	9.1000A	Hydraulic Marine Gear (Twin and Quad)
3.0000	AIR SYSTEM		Reverse and Reduction Gear (mechanical)
3.1000A	Air Cleaner and/or Adaptor	9.2000A 9.3000A	Power Transfer Gear
3.2000A	Air Silencer	9.3000A 9.3000A	Power Transfer Gear (Twin and Quad)
3.3000A	Air Inlet Housing	9.4000A	Transmission—Highway
3.4000	Blower and Drive	9.7000	Transmission—Off-highway
3.4000A	Blower Drive Shaft	9.9000	Transmission—Rail Car
3.4000B	Blower End Plate Cover	9.9000	11d13(11133)Ott -1(di) Ott
3.5000A	Turbocharger, Intercooler, and Aftercooler	10,0000	SHEET METAL
4.0000	LUDDIO ATINO CVOTEM	10.1000A	Engine Hood
4.0000	LUBRICATING SYSTEM	10.1000A	Lingine 17000
4.1000A	Oil Pump	11.0000	ENGINE MOUNTING
4.1000B 4.1000C	Oil Distribution System	11.1000A	Engine Mounting and Base
4.2000A	Oil Pressure Regulator Oil Filter	11.1000A	Engine Mounting and Base (Twin and Quad)
4.2000A 4.3000A	Oil Filter Lines	11.1000/	
4.4000A	Oil Cooler and Marine Gear Lines	12,0000	MISCELLANEOUS
4.5000A	Oil Filler	12.2000A	Bilge Pump
	Dipstick	12.3000A	Vacuum Pump
4.6000A	Oil Pan	12.4000A	Air Compressor
4.7000A	- ·	12.5000A	Hydraulic Pump
4.8000A	Ventilating System	12.6000A	Gasoline Starter
E 0000	COOLING EVETEM	12.6000A	Air Starter
5.0000	COOLING SYSTEM	12.6000B	Cold Weather Starting Aid
5.1000	Fresh Water Pump		Hydraulic Starter
5,1000A	Fresh Water Pump Cover	12.6000D 12.6000E	Hydraulic Starter Accessories
5.2000A	Water Outlet Manifold and/or Elbow	12.8000E	Supplies
5.2000B	Thermostat	12.8000A 12.8000B	Fabrication Material
5.2000C	Water Bypass Tube	12.8000B	Miscellaneous Service Kits and Sets
5.3000A	Radiator	12.8000C	Miscellaneous Service Parts
5.3000B	Water Connections	12.00000	itinggeneries service i arts
5.4000A	Fan		

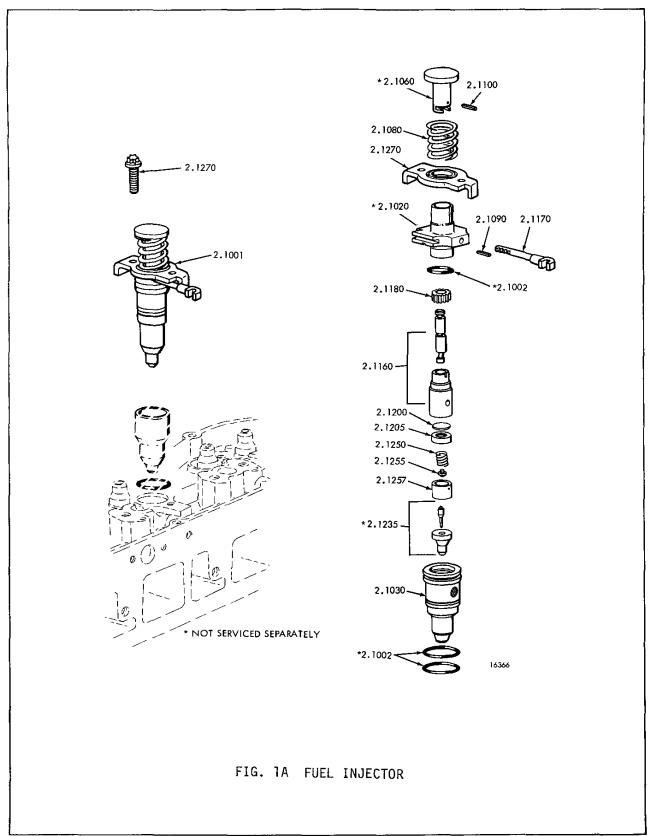
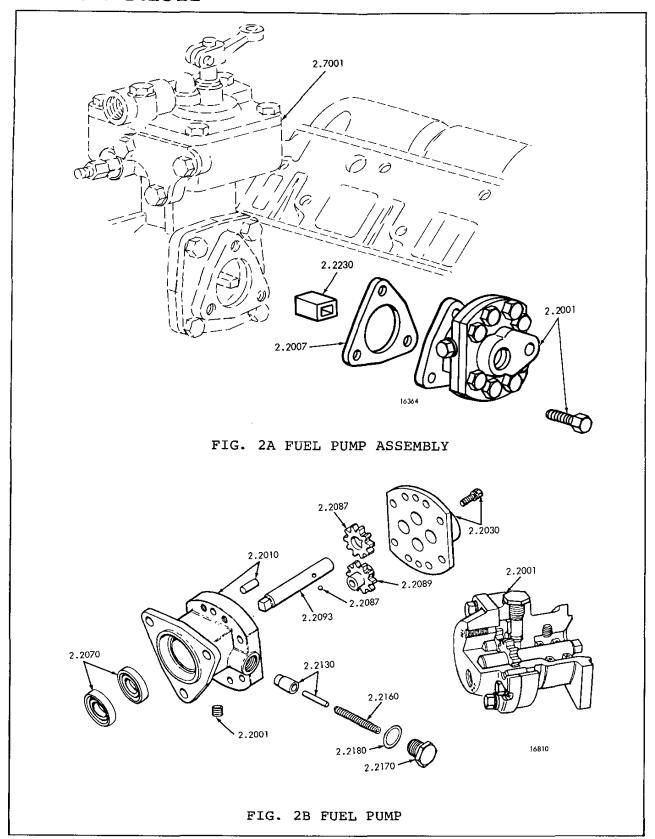


Fig. 1A of 2.0000



Figs. 2A & 2B of 2.0000 Oct., 1979 © 1979 General Motors Corp.

DETROIT DIESEL

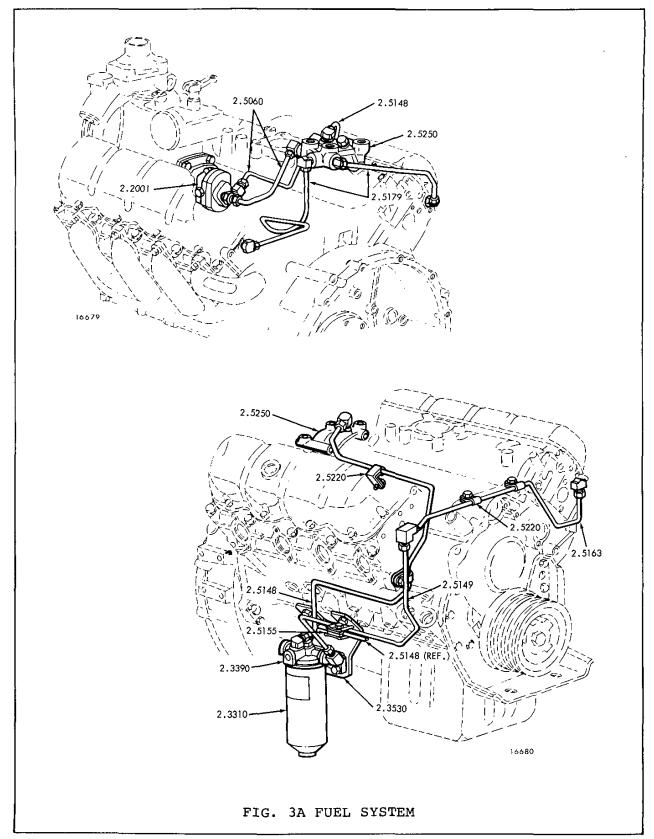


Fig. 3A of 2.0000

Oct., 1979

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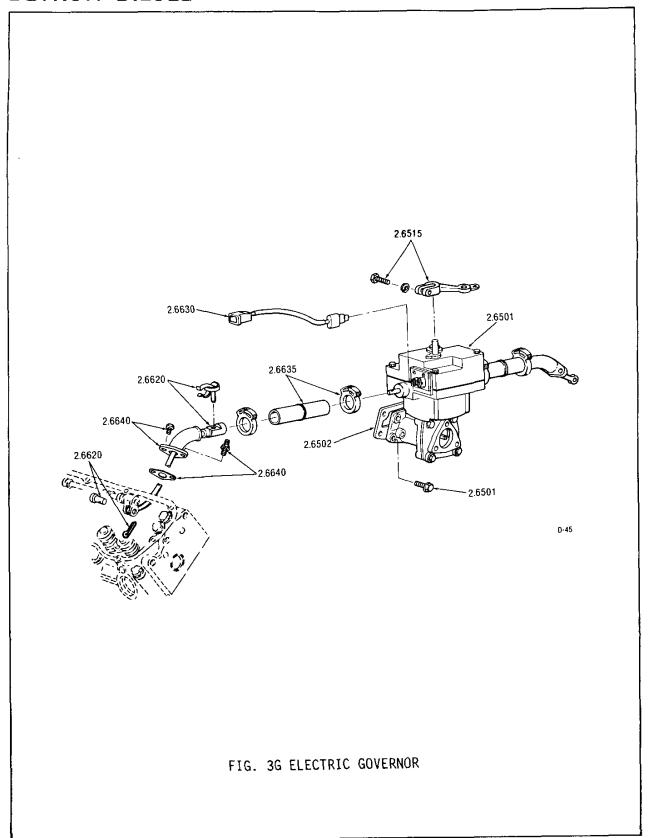


Fig. 3G of 2.0000

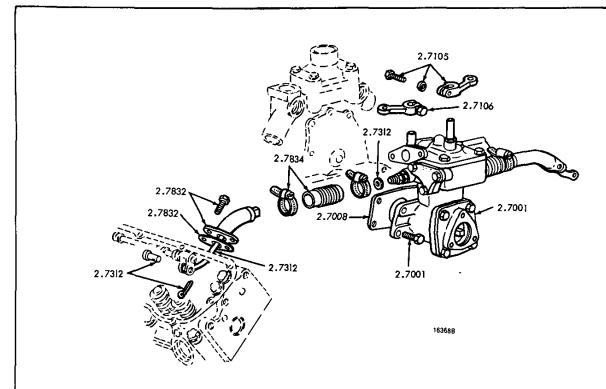


FIG. 4A GOVERNOR ASSEMBLY (FORMER)

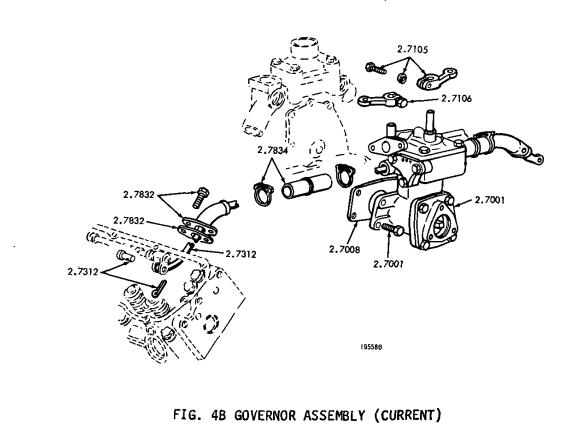


Fig. 4A & 4B of 2.0000

AUG., 1985

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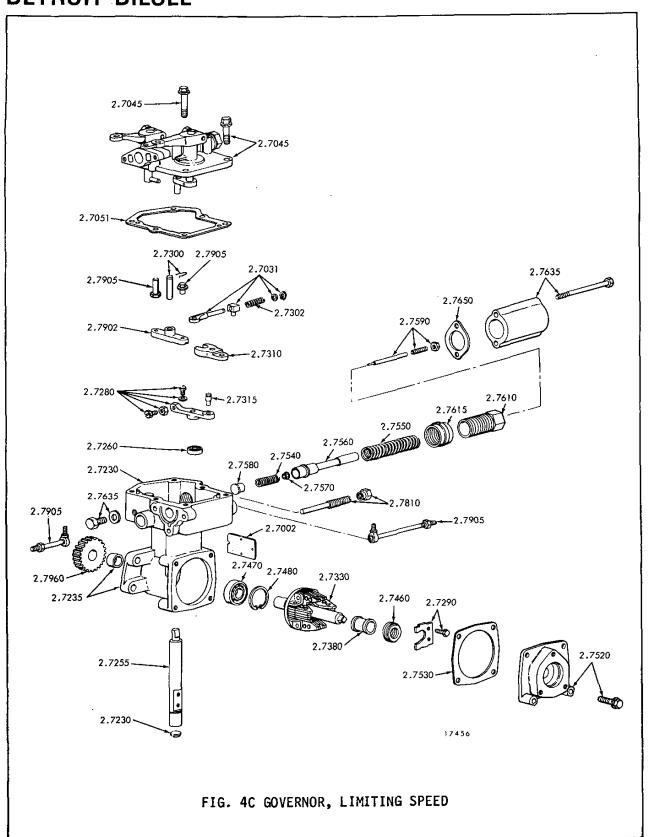


Fig. 4C of 2.0000 July, 1983 © 1983 General Motors Corp.

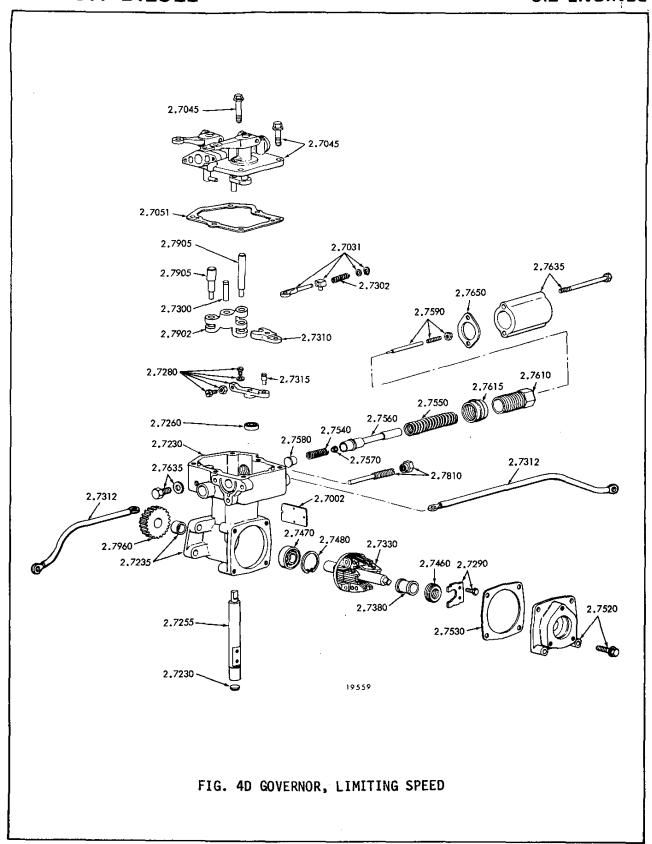


Fig. 4D of 2.0000

DETROIT DIESEL

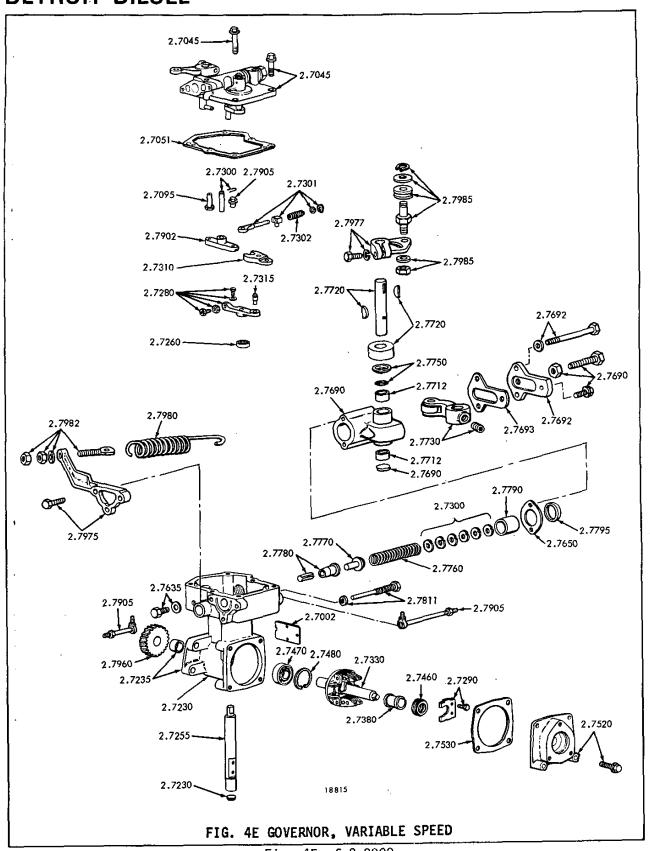


Fig. 4E of 2.0000

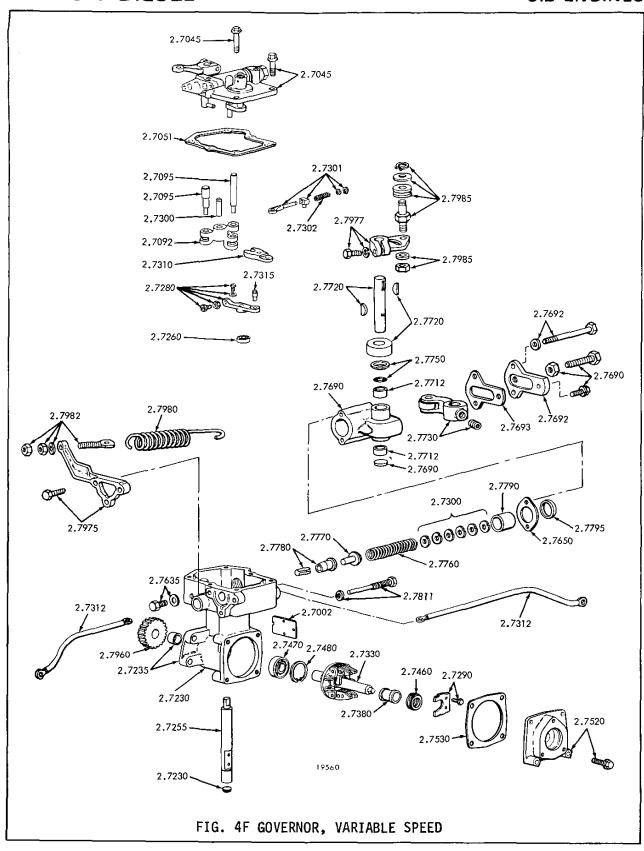


Fig. 4F of 2.0000 July, 1983 © 1983 General Motors Corp.

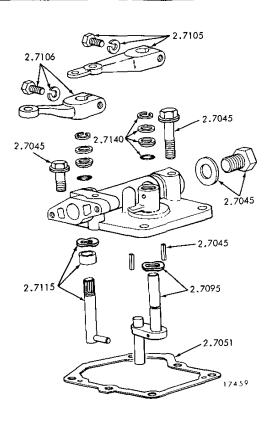


FIG. 4G GOVERNOR COVER

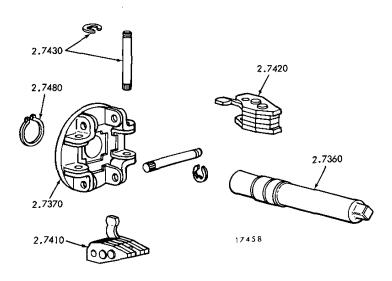


FIG. 4H GOVERNOR WEIGHT SHAFT AND CARRIER

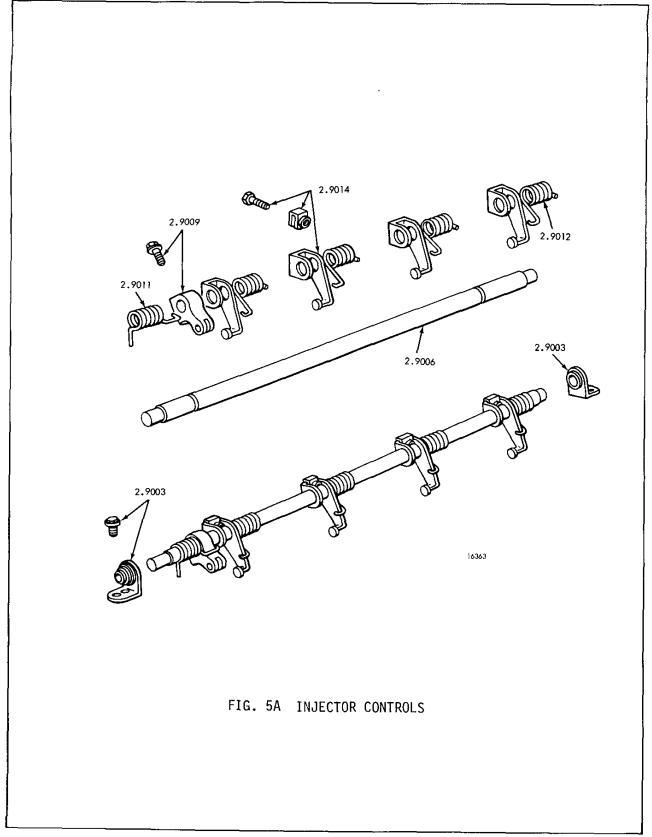


Fig. 5A of 2.0000

2.1000A FUEL INJECTOR

F10	PART		;;;;	 1	1	 I	2		2	PES 	 2	 Í	 2		 I
FIG	NUMBER	NAME AND DESCRIPTION	3	1 7 4	9	1 9 6	0	1 0	1	2 1 2	3	2 3 3	5 4		
	2.1001	- INJECTOR ASSY.								ļ					
		QUANTITIES SHOWN ARE PER CYLINDER. SEE ASSEMBLY BREAKDOWN PAGE A1.													
1A 1A 1A 1A 1A 1A 1A		INJECTOR ASSY. (4A53) + INJECTOR ASSY. (4A65) + INJECTOR ASSY. (4A65) INJECTOR ASSY. (4A40) INJECTOR ASSY. (4A70) INJECTOR ASSY. (4B45) INJECTOR ASSY. (4B55) INJECTOR ASSY. (4E67) INJECTOR ASSY. (4H60) INJECTOR ASSY. (4B75) INJECTOR ASSY. (4B75) INJECTOR ASSY. (4B760) + NOT SERVICED, USE 5229915.		7	1	1	1	1	1	1	1.	1	1		
	2.1002	- SERVICE KIT, INJECTOR													
		A KIT INCLUDES (3) SEAL RINGS.													
	5229930	SERVICE KIT	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR		
	2.1010	- CONTAINER, INJECTOR SHIPPING											Í		
	5149723	CONTAINER	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR		
,	2.1270	- CLAMP, INJECTOR								1					
1A	11504972	BOLT, M6X1.0X30.0 MM (12.9001)	2	2	2	2	2	2	2	2	2	2	2		}
	2.1005	- LABEL, TIMING INJECTOR													
		FOR A REPLACEMENT LABEL CONTACT YOUR LOCAL DISTRIBUTOR		 											
	15\$P-46 15\$P-48	LABEL, TIMING INJECTOR	AR AR	AR AR	AR AR	AR AR	AR AR	AR AR	AR AR	AR AR	AR AR	AR AR	AR AR		
ı															

AUG., 1985

PAGE 1 OF 2.1000A

2.1000A FUEL INJECTOR

								0	OLL	JMN						,
	PART		Αj		c	Ϊ	E		G	- [1]	· }	K	- 1	- [- '
FIG .	NUMBER	NAME AND DESCRIPTION	}	}				_ \)	. 1	İ		1	Ì
			1	В		ם		F		H	Ì	J		- 1	Ì	}
	2.1001 -	INJECTOR ASSY.	İ	<u> </u>				ĺ	}	·	1	١		1	1	
1A 1A 1A 1A 1A 1A 1A 1A 1A	5229850 5229865 5229965 5229915 5229960 5226110 5226175 5226180 5226260 5226270 5226055 5226435	INJECTOR ASSY. (4A53) INJECTOR ASSY. (4A65) INJECTOR ASSY. (4A65) INJECTOR ASSY. (4C65) INJECTOR ASSY. (4A40) INJECTOR ASSY. (4A40) INJECTOR ASSY. (4A50) INJECTOR ASSY. (4B55) INJECTOR ASSY. (4B67) INJECTOR ASSY. (4H60) INJECTOR ASSY. (4B75) INJECTOR ASSY. (4B45) INJECTOR ASSY. (4B60) + NOT SERVICED, SHOWN FOR PART REFERENCE ONLY.	1	1	1	1	1	1	1	1	1	1	1	1		
	2 1020 -	BODY ASSY., INJECTOR							i			,		.	-	- {
•	2//020	A BODY ASSY, INCLUDES PIN IN 2,1090.													-	
	5229738	BODY ASSY	1	1	1	1		1 1		1 1	1	1	1	1	}	- 1
1A	3223736	5051 A331													- {	
	2.1030 -	NUT, INJECTOR VALVE	. 1								}					1
1A	5229720	NUT ASSY. (INCLUDES FILTERS AND RING SEALS NOT SERVICED SEPARATELY)	1	1	1	1	1	1]] 1	1	1	1	1	1		
	2.1060 -	FOLLOWER, INJECTOR														-
		A FOLLOWER ASSY. INCLUDES PIN IN 2.1100.									ì					
1,A	5229732	FOLLOWER ASSY	1	1	1	1	1	1	1	1	1	1	1	1		
	2.1080 -	SPRING, INJECTOR PLUNGER				1	. .		1))	}		,	}	Ì
1A	5229731	SPRING	1	1	1	1	1	1	1	1	1	1	1	1		
	2.1090 -	PIN, INJECTOR FOLLOWER														
1A	11504503	PIN	1	1	1	1	1	1	1	1	1	1	1	1		
	2.1100 -	PIN, INJECTOR STOP		1									ļ			l
1A	456540	PIN (12.9275)	1	1	1	1	1	1	1	1	1	1	1	1		
•	2.1160 -	PLUNGER AND BUSHING ASSY.														
		PLUNGERS AND BUSHINGS ARE NOT SOLD SEPARATELY.														
1A	5229840	PLUNGER AND BUSHING ASSY. (4A53,		}			{	-	1	}		}		1		, I
1 A 1 A	5229838 5229944	4B55) PLUNGER AND BUSHING ASSY. (4A65) PLUNGER AND BUSHING ASSY. (4B65)	1	1	1											
			1	1	1		1		1	1	1		1	l	1	ı I

AUG., 1985 PAGE A 1 OF 2.1000A

2.1000A FUEL INJECTOR

	DADT		· ·	· · · ·		· · · ·				·MŲ-	Ŋ						
FIG .	PART NUMBER	NAME AND DESCRIPTION	A		C		E		G				K	}			
				В		D		F		н		J		L			
	2.1160	- PLUNGER AND BUSHING ASSY., INJECTOR (CONT'D)															
1A	5229953	PLUNGER AND BUSHING ASSY. (4C65,				١.		١.		١.	١.						
1A 1A	5229961 5226358 NPN NPN	4A70, 4E67, 4H60) PLUNGER AND BUSHING ASSY. (4A40) PLUNGER AND BUSHING ASSY. (7B75) PLUNGER AND BUSHING ASSY. (4B45) PLUNGER AND BUSHING ASSY. (4J60)				1	1	1		1	1	1	1	1			
	2.1170	- RACK ASSY., INJECTOR	l			1		ł		1				1			l
1A	5229740	RACK	1	1	1	1	1	1	1	1	1	1	1	1			
	2.1180	- GEAR, INJECTOR		ļ		1]] .			ļ
1A	5229717	GEAR	1	1	1	1	1	1	1	1	1	1	1	1			
	2.1200	VALVE, INJECTOR CHECK															
1 A	5228694	VALVE	1	1	1	1	1	1	1	1	1	1	1	1		, 	
	2.1205	CAGE, INJECTOR CHECK VALVE														ļ	
1A	5229856	CAGE	1	1	1	1	1	1	1	1	1	1	1	1		i	
)	2.1235	TIP ASSY., INJECTOR SPRAY		Ì													İ
		COMPONENTS OF TIP ASSY. ARE NOT SOLD SEPARATELY.] 					
1A 1A 1A 1A 1A	5229727 5229846 5229964 5226084 5226168 5226174 5226364	TIP ASSY. (4A53) TIP ASSY. (4C65) TIP ASSY. (4A40) TIP ASSY. (4A70) TIP ASSY. (4B45, 4B55, 4J60) TIP ASSY. (4E67) TIP ASSY. (4H60, 4B75)	1	1	1	1	1	1	1	1	1	1	1	1			
	2.1238 -	VALVE KIT, INJECTOR										 					
		A KIT CONSISTS OF ITEMS IN 2.1250 AND 2.1255.															
	5228769	VALVE KIT	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR			
	2.1250 -	SPRING, INJECTOR VALVE															
1A	5228596	SPRING	1	1	1	1	1	1	1	1	1	1	1	1			
	2.1255 -	SEAT, INJECTOR VALVE SPRING															
1A	5228766	SEAT	1	1	1	1	1	1	1	1	1	1	1	1			
,			ı	ı	ı	ı	- 1			ı j	ı	- 1	ı	- 1	- 1	- 1	

		2.1000A	FUEL INJECTOR	t														
FIG .	PART	NAME	AND DESCRIPTI	ON	A		C	· · · · ·	Ē		G L	NML	ij		K	····		
	2.1257 -	CAGE, INJECT	OR VALVE SP	RING		В		Đ		F		H		J				
1A	5229726				1	1	1	1	1	1	1	1	1	1	1	1		
	2.1270 -	CLAMP, INJEC	CTOR															
1A	5229730	CLAMP			1 	1	1	1	1	1	1	1	1	1	1	1		
																		ļ
																	:	
													!					
															ı			

2.2000 FUEL PUMP

FIG .	PART NUMBER	NAME AND DESCRIPTION	1 8 7		2 0 0	2 0 1		TY	PES .					
	2.2001 -	PUMP ASSY., FUEL		ľ		'								
		FOR COMPONENTS OF THE FUEL PUMP KIT REFER TO ASSEMBLY BREAKDOWN PAGE A1.	1											
2A,C	5199560 8923963 8924169 8924315 8925030 8924217 11504471	PUMP KIT, FUEL PUMP KIT, GEROTOR FUEL CONNECTOR, 1/2" TUBE (12.9460) CONNECTOR, 5/16" TUBE (12.9380) ELBOW, 3/8" TUBE 90 DEG. (12.9480) ELBOW, 3/8" TUBE 90 DEG. (12.9480) BOLT, M8 1.25 X 25.0 MM FLG. (12.9001)	3	1 1	1 1 1 3	1 1 3]
	8924380	PLUG, 1/8" PIPE (12.9550)	2											
	2.2004 -	OVERHAUL KIT, FUEL PUMP									-]		
		INCLUDES ITEMS IN 2.2001, 2.2007, 2.2070, 2.2093, 2.2130, 2.2160 AND 2.2180.												
	5195078	OVERHAUL KIT (ALSO INCLUDES ITEM								ı	ĺ	1 1		
	8923810	IN 2.2089) OVERHAUL KIT, GEROTOR (ALSO INCLUDES ITEMS IN 2.2030 AND 2.2090)		1		1								
	2.2007 -	GASKET, FUEL PUMP TO ENGINE									ļ			
2A,C	5150193	GASKET (5.1010)	1	1	1	1								
	2.2230 -	COUPLING, FUEL PUMP DRIVE]]		
2A	5154216	COUPLING	1	1	1	1								
										-				
								1						
							1		ÌÌ		Ì	1 1		İ
				ĺ							ĺ	1 1		
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			ĺ	ĺ		ĺ				ĺ			ĺ	
			-]]		
		'	'	1	1	'	1		'	'	1	' '	ı	(

2.2000 FUEL PUMP

												4
FIG	PART NUMBER	NAME AND DESCRIPTION	 A				cc	LUMN				
	2 2001 .	PUMP ASSY., FUEL		В				1 1	1 1		1	
	5199560	PUMP KIT, FUEL (L.H.) (3/8" INLET)	1								}	
	8923963 116332	INLET)		1		!						
2B 2B,C	5136240 5136241	PLUG, .42" DIA. PLUG, .58" DIA.	1 1	2								
	2.2007 -	GASKET, FUEL PUMP TO ENGINE						}				
2A,C	5150193	GASKET (5.1010)	1	1	} }				1 1			
	2.2010 -	BODY, FUEL PUMP										
2B 2C	5146337 8922428 8924380 141195	BODY (L.H. 3 DRNS) .250"/.251"	2	1								
	2.2030 -	COVER, FUEL PUMP										
2B 2C 2C 2B 2B,C	5134560 8922427 5103650 5198558 3719219	COVER COVER SEAL, O-RING BUSHING, 3/8" X 1/4" BOLT, 1/4"-20 X 3/4" (WITH L.W.)	1	1 1		l l	: :			i 	i	
	2.2070 -	SEAL, FUEL PUMP OIL				1						1
2B,C	5107223	SEAL	2	2							ļ	ļ
	2.2087 -	GEAR, FUEL PUMP DRIVE										
2B 2B	5174975 147481	GEAR	1 1									
	2.2089 -	SHAFT, FUEL PUMP DRIVEN										
		A SHAFT ASSY. INCLUDES GEAR WHICH IS NOT SOLD SEPARATELY.	1									
2B	5181747	SHAFT ASSY	1									
	2.2090 -	ROTOR, FUEL PUMP				ļ						
2C	8922431	GEROTOR ASSY., FUEL PUMP (INCLUDES INNER AND OUTER ROTORS)		1								

2.2000 FUEL PUMP

			2.2000 FUEL PUMP										
	FIG	PART NUMBER	NAME AND DESCRIPTION	 A				. COLU	. MML]		·····	
		2.2093	· SHAFT, FUEL PUMP DRIVE		В								
			A SHAFT ASSY. INCLUDES SHAFT IN 2.2093 AND ITEMS IN 2.2087.										
	2C 2B 2C	5187146 8922432 5178700 5103652	SHAFT ASSY. (DRIVE) SHAFT (DRIVE) SHAFT (DRIVE) PIN, .10"X.62" L. (2.2001)	1	1 1						!		
		2.2130 -	VALVE ASSY., FUEL PUMP										
	2B,C 2B,C	5174973 103709	VALVE	1	1 1								
		2.2160 -	SPRING, FUEL PUMP VALVE RETAINING						Ì				Ì
	2B,C	5184530	SPRING	1	1								
		2.2170 -	PLUG, FUEL PUMP VALVE										
	2B,C	5174971	PLUG	1	1 !								
		2.2180 -	GASKET, FUEL PUMP VALVE PLUG										
	2B,C	5161003	GASKET	1	1								
)													
					}								
													1
			}										
1			'	•	•	• '	•		•	. '	•		•

2.3000A FUEL FILTER AND STRAINER

		2.3000A FUEL FILTER AND STRAINER						TVDE						
FIG .	PART NUMBER	NAME AND DESCRIPTION	6 8 4	7 9 2	8 0 4	8 2 8		TYPES						
	2.3001	- STRAINER ASSY., FUEL		i								Ì		
	25011011 8923847	STRAINER CARTRIDGE (SPIN ON) (T-936) PLUG, 1/4" PIPE (4.7001)			1 2									
	2.3080	- COVER, FUEL STRAINER												
	8921410	COVER (SPIN ON)			1									}
	2.3310	- FILTER ASSY., FUEL												
		FOR TYPE 794 USE TYPE 792.	ļ		}				-		} }	-		}
3A	25010959	CARTRIDGE (SPIN ON) (TP928)	1	1	1	1		İ						
	2.3390	- COVER, FUEL FILTER							1				}	
3A 3A	5148171 8923417	COVER (SPIN-ON)	1	1	1	1								
JA	5121182 8922327	PLUG, 1/4" HEX. SOC. PIPE (2.4015) PLUG, 1/4" PIPE (12.9550)	2		1			. }	1				-	
	8923847 11500879	PLUG, 1/4" SO. SOC. PIPE (4.7001)	1		2	2								
	11500725 11501052	BOLT, M10X1.5X35.0 MM (12.9001)		2	2	2								
	2.3530	- BRACKET, FUEL FILTER MOUNTING												
3A 3A	8922269 8922809	BRACKET BRACKET		1		1								
3A	8924125 8922228	BRACKET	2										- {	
	11500881 8922229	BOLT, M10 X 1.5 X 40.0 MM (12.9001)		2	2	2					Ì		Ì	
				l	ļ								ļ	1
													ļ	
									Ì					
			1					1						
											1			
										-	1	\ \		
			I	ı	I	ļ	1	1 1	I	1	I	1 1	ı	' (

2.5000A FUEL LINES AND FUEL COOLER

									. TYF	EC					
. FIG .	PART NUMBER	NAME AND DESCRIPTION	1 5 4 8	1 6 0 8	1 6 1 4	1 6 2 8	1 6 4 4	1 6 4 5	1 6 4 6	1 6 4 7	1 6 6	1707	1 7 1 9		
	2.5100	- TUBE, FUEL PUMP TO FILTER							,	ľ			l		
	8921872 8922032 5107858 8924135 8927441 8924218 8924171 8924215 193004 8925030	% TUBE ASSY., DEV. L. 1127.0MM (2.5149) TUBE ASSY., DEV. L. 1297.0 MM HOSE ASSY., #6X28.5" L. TUBE ASSY., DEV. L. 1171.0 MM TUBE ASSY., DEV. L. 1192.0 MM CONNECTOR, 5/16" TUBE (12.9460) CONNECTOR, 3/8" TUBE (12.9460) * ELBOW, 5/16" INV. FL. TUBE 90 DEG. (12.9480) ELBOW, 90 DEG. INV. FL. 3/8" TUBE (12.9480) ELBOW, 90 DEG. INV. FL. 3/8" TUBE (12.9480) % NOT SERVICED; EFFECTIVE WITH 8G23415. FOR SERVICE PRIOR TO 8G23415 USE 8922032 TUBE ASSY. AND (2) 9432264 CONNECTORS. * USED ON UNITS PRIOR TO 8G23415.	1 1 2	1	1 1	1 1 1 2	1	1	1	1 1	1 1 1	1 1	1 1		
3A	2.5120 3290459	- CLIP, FUEL PUMP TO FILTER HOSE * CLIP, 5/16" TUBE (2.5220)	1						i					 	
24	8922292 5182629 8922216 3291486 2362448 5101020	# CLIP, 5/16" TUBE * CLIP, 5/16" TUBE (12.4080) # CLIP, 5/16" TUBE * CLIP, 5/16" TUBE (2.5220) CLIP, 688" (12.8554) STRAP, NYLON TIE (2.5255)	1 1 1	1	1	1 AR	1	1	1	1 AR	1		1		
3A	8921122 106261 446200 120392 11502811	* BOLT, M8X1.25X20.0 MM (12.9001) BOLT, M10X1.5X20.0 MM (12.9001) * WASHER, 5/16" (12.9190) * WASHER, 5/18" (12.9190) # WASHER, 9/32" (12.9190) * NUT, M8X1.25 (2.5220) # NUT, M6X1.00 * THRU. 8G23414. # EFFECTIVE WITH 8G23415.	1 1 1 1 1 1	1	1	1			1	1	1	i			
	2.5130	- BRACKET, FUEL PUMP TO FILTER HOSE CLIP											:		
	5108956 8922215 8923350	* BRACKET (4.1540) # BRACKET BRACKET * THRU 8G23414, # EFFECTIVE WITH 8G23415.	1	1	1		1	1	1		1				
		- HOSE, FUEL PUMP TO JUNCTION BLOCK								,					
	8920452 8922257 8924467 8924162	% TUBE ASSY., DEV. L. 358.65MM TUBE ASSY., DEV. L. 414.54 MM TUBE ASSY., DEV. L. 496.0 MM * ELBOW, 1/2" INV. FL. TUBE 45 DEG. (12.9480)	1	1	1	1	1	1	1	1	1	1	1		
	8925002 8924169	ELBOW, 1/2" INV. FL. TUBE 90 DEG. (12.9480)	1 1	1	1	1					1	į			
		-				}							İ	.	

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2.5000A FUEL LINES AND FUEL COOLER

		-					TVD						
PARTFIG NUMBER NAME AND DESCRIPTION	1 5 4 8	1 6 0 8	1 6 1 4	1 6 2 8	1 6 4 4	1 6 4 5	1 6 4	1 6 4 7		7 0	1 7 1 9		
2.5144 - HOSE, FUEL PUMP TO JUNCTION BLOCK (CONT'D)		}			:								
% NOT SERVICED; EFFECTIVE WITH 8G23415. FOR SERVICE PRIOR TO 8G23415 USE 8922257 TUBE ASSY. AND 431538 CONN ECTOR. * THRU 8G23414. # EFFECTIVE WITH 8G23415.													
2.5149 - TUBE, FILTER TO CYLINDER HEAD													
8921870 % TUBE ASSY., DEV. L. 606.0 MM 8922030 TUBE ASSY., DEV. L. 614.83 MM 8925152 HOSE ASSY., #6X24.92" L. 5199575 #HOSE, #6X22.0" L. (12.8550) 8923851 HOSE ASSY., #6X18.55" L. (2.5110) 8924134 TUBE ASSY., DEV. L. 647 MM 8927443 TUBE ASSY., DEV. L. 645.5 MM 8924172 ADAPTOR, PIPE 1/4"-18 W/SEAL (12.9460)	1		1	1	1	1	1	1	1	1	1		
8924188 TEE, 90 DEG. INV. FL. 5/16" (7.4596)	1	1	1	1	1	1	1 1		1	1	1	ļ	ŀ
5199579 FITTING, MALE INV. FL. 3/8" TUBE (12.8552)					ļ		1		1				
5199588 FITTING, 90 DEG. MALE INV. FL. 3/8"	1	1	1	1 2	1	1	1	1 2	1 1 1				
2.5163 - TUBE, FUEL SUPPLY CROSSOVER			ļ									<u>.</u> 	
8920456 % TUBE ASSY., DEV. L. 27.35" 8922029 TUBE ASSY., DEV. L. 719.24 MM 5107854 HOSE ASSY., #6X18.3" L. (2.5163) 8927444 TUBE ASSY., DEV. L. 12.8550) 8927444 TUBE ASSY., DEV. L. 692.0 MM 5199579 FITTING, MALE INV. FL. 3/8" TUBE (12.8552)	. 1 . .	1	1	1	1	1	1		1	1	1		
TUBE (12.8552)	.				a a		1	1	1]
8925030 ELBOW, 3/8" INV. FL. TUBE 90 DEG. (12.9480)	.	1	1	2	1	1				1	1		
2.5164 - CLIP, FUEL SUPPLY CROSSOVER TUBE													
3A 3290459 CLIP, 5/16" TUBE (2.5220)	:	2	2	1 2	2	2	2 2	2	2	3	3		
11500714 BOLT, M8X1.25X20.0 MM (12.9001)	. 2	2	2		2	2	_		2	2	2		

2.5000A FUEL LINES AND FUEL COOLER

							. TYF)EC						
PARTFIG NUMBER NAME AND DESCRIPTION	1 5 4 8	1 6 0 8	1 6 1 4	1 6 2 8	1 6 4 4			6 4	1 6 6	1 7 0 7	1 7 1 9			
2.5164 - CLIP, FUEL SUPPLY CROSSOVER TUBE (CONT'D)														
5170765 SPACER, 11/32" (7.1581)				1 2			1							
2.5175 - TUBE, JUNCTION BLOCK TO CYLINDER HEAD	į		,											
8921362 % TUBE ASSY., DEV. L. 11.57" (R.B.) (8922254)														1
8922254 TUBE ASSY., DEV. L. 327.27 MM	1	1	1						1					
(8922421)			١.						,					
(2.5179) 8923966 HOSE ASSY., #6X10.92" L. (4.1581) 8924319 HOSE ASSY., #6X12.92" L.		1	1	1					1					
8924465 TUBE ASSY., DEV. L. 584 MM			 		1		1 1	1 1		1 1	1 1	}		
(12.9480)	1	1	2	,	1	1	1	1 1	1	1	1			
8925030 ELBOW, 3/8" INV. FL. TUBE 90 DEG. (12.9480)				1 2										
8924218 CONNECTOR, 5/16" TUBE (12.9460)	2	2	2	_	1	1	1	1	1	1	1			
2.5180 - CLIP, CYLINDER HEAD INLET														
3290459 * CLIP, 5/16" TUBE (2.5220) 892286 # CLIP, 5/16" TUBE 892292 CLIP, 5/16" TUBE (2.5220) 5134840 CLIP, 5/16" TUBE (2.5220) 120392 WASHER, 9/32" (12.9190) 120393 # WASHER, 5/16" (12.9190) 11503749 NUT, M6X1.00 (2.5220) 11501066 NUT, M8X1.25 (12.9190) * THRU 8G23414. # EFFECTIVE WITH 8G23415.	1	1	1		1 1 1 1 1	1 1 2 1	1 1 3		1 1 1 1 1	1 1 1 1	1 1 1 1			
2.5190 - BRACKET, FILTER TO CYLINDER HEAD CLIP				:										
8927445 BRACKET, 43.0 MM L			 							1	1		İ	
2.5250 - BLOCK, FUEL SYSTEM JUNCTION														
8922489 BLOCK 8924058 BLOCK 5121182 PLUG, 1/4" PIPE (2.4015) 8920442 BOLT, M10X1.5X80.0MM FLG. (4.2291)	1 4 1	1 4 1	1 4 1	1 4 1	1	1	1	1 1	1 4 1	1	1			

2.6000B ELECTRIC GOVERNOR

		2.0000		_	-VDE6					
FIG	PART	NAME AND DESCRIPTION	5		TPES .					
	2.6501	GOVERNOR ASSY.		} }			1			
3G	8926410	GOVERNOR (ELECTRONIC ENGINE	١.			, }	1 1		\ \	
3G 3G	8920438 8922016	CONTROL) BOLT, M10X1.5X30.0 MM (2.7001) BOLT, M10X1.5X30.0 MM (2.7001)	3							
	2.6502 -	GASKET, GOVERNOR TO CYLINDER BLOCK			}					
3G	8920308	GASKET (2.7008)	1 1		i					
	2.6507 -	KIT, GOVERNOR INSTALLATION								
		A KIT INCLUDES THE NECESSARY ITEMS TO INSTALL AN ELECTRONIC ENGINE CONTROL GOVERNOR.								
	8928731	KIT, GOVERNOR FIELD INSTALLATION	AR							
	2.6515 -	LEVER ASSY., ACTUATOR			- {					
3G 3G 3G	8920859 179796 103319	LEVER (2.7105) BOLT, 1/4"-20X7/8" (12.9001) LOCKWASHER, 1/4" (12.9200)	1							
	2.6620 -	LINK, ACTUATOR OPERATING CONNECTION								
3G 3G 3G 3G	8926452 8926453 103361 5147345	LINK, LOWER INJECTOR RACK PIN, SPRING CLIP PIN, 1/16"X1/2" COTTER (12.9250) PIN, 1/4"X49/64" CLEVIS (2.9022)	2 2	}						
	2.6630 -	LEAD, JUMPER TO SHUTDOWN SOLENOID								
3G	8926451	LEAD	1				1			
	2.6635 -	BOOT, GOVERNOR TO INJECTOR LINK								
3G 3G	8924642 162 7 086	BOOT CLAMP, 28.3 MM-35.5 CLAMPING RANGE (2.7834)	ı							
	2.6640 -	TUBE, CYLINDER HEAD GOVERNOR CONTROL LINK								
3G 3G 3G	8920384 8920399 1262788	TUBE GASKET STUD, M8X1.25X20.0X15.0 MM	2 2							
3G	8920403	(12.9117)	2 2							
	2.6645 -	TERMINAL, EEC GOVERNOR MALE								
	12010085	TERMINAL	AR							
								1		

2.6000B ELECTRIC GOVERNOR

2.6000B ELECTRIC GOVERNOR	
	TYPES
PARTFIG NUMBER NAME AND DESCRIPTION	5
2.6650 - SEAL, EEC GOVERNOR WIRE	
12015323 SEAL	AR
2.6655 - BODY AND SEAL ASSY., EEC GOVERNOR	
12020089 BODY AND SEAL ASSY. (6 WAY CONNECTOR)	AR
2.6660 - PLUG, EEC GOVERNOR CAVITY	
12010300 PLUG	AR AR

									TYPI	ES .					
FIG .	PART NUMBER	NAME AND DESCRIPTION	1 6 0	1 7 3 1	1 7 9 3	1 8 4 3	1 8 5 6	1 8 7 6	1 8 7 7	1 8 7 8					
	2.7001	- GOVERNOR ASSY.													
		SEE ASSEMBLY BREAKDOWN PAGE A1.													
4A	8921800	* GOVERNOR ASSY., LIMITING SPEED							ı			1	1 1		
4A	8922347	(3000 RPM)+ GOVERNOR ASSY., LIMITING SPEED	1				ı	ļ	Į						
	8922870	(2800 RPM)GOVERNOR ASSY., VARIABLE SPEED		1						İ					1
	8924346	(800-3400 RPM) GOVERNOR ASSY., LIMITING SPEED			1					ļ					-
	8923672	(3000 RPM) GOVERNOR ASSY LIMITING SPEED				1			İ		- 1				
	8924644	(3000 RPM)					1								
	8924646	(2600-3200 RPM)						1							
	8924645	(3000-3400 RPM) GOVERNOR ASSY., LIMITING SPEED				į			1						
	8922981	(3200 RPM) KIT, LINKAGE LOCK REWORK	1	1	1					1					
4A,B	8920438	BOLT, M10 X 1.5 X 30.0 MM (W/WASH. HD.)		2	2	2	2	3	3	3	}				
4A,B	8922016	BOLT, M10 X 1.5 X 30.0 MM (W/WASH. HD.)		2	2	2	2	1	1	1					
		* NOT SERVICED, USE 8923672 AND	_	_	-	֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	~			\	Ì	1		1	
		ONE (1) EACH OF 5113338 LEVER,179796 BOLT AND 103319													
		LOCKWASHER. + NOT SERVICED, USE 8923675, AND										-			14
		ONE (1) EACH OF 5113338 LEVER, 179796 BOLT AND 103319						i			Į				
		LOCKWASHER. = NOT SERVICED, USE 8924644 AND (1)													
		EACH OF 8924639 LINK, 89204640 LINK, 8920384 TUBE, 8924641 BOOT,													
		892464 2 BOOT AND (4) 8924643 CLAMPS.								ļ					
	2.7008	- GASKET, GOVERNOR TO CYLINDER BLOCK					 								
4A,B	8920308	GASKET	1	1	1	1	1	1	1	1					
	2.7012	- KIT, GOVERNOR CONVERSION													
	8922708	KIT, GOVERNOR CONVERSION (3000							· '						
		RPM). PROVIDES ALL ITEMS NECESSARY TO CONVERT A		ŀ											
		LIMITING SPEED GOV ERNOR INTO AN AIR OPERATED VARIABLE LOW	١			١.,	, ,			,,,					
	5149876	SPEED GOVERNOR KIT, GOVERNOR CONVERSION (3000	AR	AR	1	AH	AK	AR		AR					
		RPM). PROVIDES ALL ITEMS NECESSARY TO CONVERT A													
		LIMITING SPEED GOV ERNOR INTO A VARIABLE LOW SPEED LIMITING													
	8922901	SPEED CABLE OPERATED GOVERNOR KIT, GOVERNOR CONVERSION (2000	AR	AR		^{AR}	AR	AR		AR					
		RPM TO 3000 RPM). PROVIDES ALL ITEMS NECESSARY TO CONVERT A													
		LIMITI NG SPEED GOVERNOR INTO AN AIR OPERATED DUAL HIGH													
		SPEED GOVERNOR	AR	AR		AR	AR	AR		AR		1			

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									TYF	EC			
FIG .	PART NUMBER	NAME AND DESCRIPTION	1 6 0	1 7 3 1	1 7 9 3	1 8 4 3	1 8 5 6	1 8 7 6	1 8 7 7	1 8 7 8			
	2.7312	- LINK, GOVERNOR OPERATING LEVER CONNECTING						į					
4A 4A 4B 4B	8920421 8920420 8924640 8924639	LINK (LONG) LINK (SHORT) LINK (LONG) LINK (SHORT)	1	1	1	1	1	1	1	1 1			
4A,B 4A,B	103361 5147345 120423	PIN, 1/16"X1/2" COTTER (12.9250) PIN, 1/4"X.776" LOCKWASHER, 1/4" (12.9220)		2 2 2	2 2 2	2 2 2	2 2 2	2 2	2	2 2			
	2.7832	TUBE, CYLINDER HEAD GOVERNOR CONTROL LINK											
4A 4A,B 4A,B	8920387 8920384 8920399	TUBE (LONG) TUBE (SHORT) GASKET (1.2060)	1 1 2	1 1 2	1 1 2	1 1 2	1 1 2	2	2 2	2 2			
4A,B	8920403 1262788	BOLT, M8 X1.25X20.0 MM (W/NYLON PATCH) (1.2050)	2	2 2	2	2 2	2	2	2	2 2			
	2.7834	BOOT, GOVERNOR TO INJECTOR LINK											
4A 4B 4B 4A 4B	8920306 8924641 8924642 8922121 1627086	+ BOOT, 66MM L. BOOT, 127.0 MM L. BOOT, 74.0 MM L. CLAMP, 25 MM CLAMP, 28.8 MM + NOT SERVICED, USE 8924642 BOOT AND (2) 1627086 CLAMPS.	4	4	2	4	4	1 1 4	1 1	1 1 4			
	2.7980 -	SPRING, THROTTLE BOOSTER											
4E,F	8922807	SPRING			1				1				
								į					

								,	COLU	IMN					. .	
	PART		A	1	C	· · · · i	Ε¦	· · · Ì	G		ij		ĺ	ĺ	1	Í
FIG .	NUMBER	NAME AND DESCRIPTION					Į									
				В		D		F		н		J		-		
	2.7001	- GOVERNOR ASSY.												}		
4A,B	8921800	* GOVERNOR ASSY., LIM. SPD. (3000					1		1				- 1	- }		
4A,B	8921820	* GOVERNOR ASSY., LIM. SPD. (3000	1								-	ļ			-	1
4A,B	8922347	RPM) * GOVERNOR ASSY., LIM. SPD. (2800 RPM)		1	1											
4A,B	8923672	* GOVERNOR ASSY., LIM. SPD. (3000	1 1		'						ļ			Į	-	-
4A,B	8923675	RPM) GOVERNOR ASSY., LIM. SPD. (2800	1			1							1			
	8922870	RPM)					1									
4A,B	8924346	(800-3400 RPM)	ì					1	1							
4A,B	8924644	RPM) GOVERNOR ASSY., LIM. SPD.	1						$ \ $	1					1	
	8924646	(2600-3200 RPM) GOVERNOR ASSY, VAR. SPD.	i i								1					
4A,B	8924645	(3000-3400 RPM) GOVERNOR ASSY, LIM. SPD. (3200 RPM)	1									1				
		* NOT SERVICED, SHOWN FOR REFERENCE ONLY.										, i				
		HEI ERENGE ONET.														
	2.7002	- NAME PLATE, GOVERNOR														
4C,D,E,F	5113056	NAME PLATE	1	1	1	1	1	1	1	1	1	1				
	2.7045	- COVER ASSY., GOVERNOR-COMPLETE										,				
		INCLUDES ITEMS IN 2.7045, 2.7095, 2.7115 AND 2.7140.														
4C,D	8920327	COVER ASSY.	1	1	1	1	1		1	1		1				
4E,F	8922699	COVER ASSY.	1	1	1	1	1	1	1	1	1 1		\ \			- {
4G 4G	5180539 456390	GASKET, COPPER (2.9333)	2	2	2	2	2		2	2		2				
4G	453676 11505077	PIN, 1/8"X1" SPRING (12.9275)	1	1	1	1	1	1 1	1	1	1			-		ł
4C,D,E,I	11503781	+ BOLT, M6 X 1.0 X 20.0 MM (12.9001)	4	4	4	4	4	4	4	4	4	4 2]]			
	11505078 5152148		2	2	2	2	2	2	2	2	2	2			ļ	
	J 132 146	+ NOT PART OF ASSEMBLY.	'													
	2.7051	- GASKET, GOVERNOR COVER]]			
4C,D,E,I	8920290	GASKET	1	1	1	1	1	1	1	1	1	1				
	2.7095	- SHAFT ASSY., GOVERNOR THROTTLE														
		INCLUDES PIN IN 2.7095.		1												
4G	8920326	SHAFT ASSY.	1	1	1	1	1		1	1		1				
4G	8922685	SHAFT ASSY		1	1	1	1	1	1	1	1 1	1				
4G	453676 8922932	PIN, 1/8"X1" SPRING (12.9275)		¦	Ιί	1	i		i	Ι΄] .	`				
				ĺ]						
						1	1	1	1	1	1				- \	-
			ı	1	1	1	1	1	I	1	1	I	1 1		i	1

								COL	JMN			<i>.</i>			
PART .FIG NUMBER	NAME AND DESCRIPTION	A		C		E		G							
			В	!	D		F		н		J				
2.7105 -	LEVER, GOVERNOR THROTTLE SHAFT														
A,B,G 8920859 A,B,G 179796 A,B,G 103319	LEVER	1 1 1	1 1	1	1 1 1 1	1 1 1	j	1 1 1	1 1 1		1 1 1				
2.7106 -	LEVER, GOVERNOR THROTTLE STOP														
IA,B,G 5113338 IA,B,G 179796 IA,B,G 103319	LEVER (2.9410)	1	1 1 1	1 1 1		1	1 1 1			1 1 1			ł		
2.7115 -	SHAFT ASSY,, GOVERNOR SHUTDOWN		'												
	INCLUDES PIN IN 2.7115.			ļ											
8920325 6G 8922932 6G 8921204 6G 455972	SHAFT ASSY. WASHER, SPRING SPACER (2.7165) PIN, ROLL (12.9275)	2	1 2 1 1	1 2 1 1	1 2 1 1	1 2 1 1	1 1 1 1	1 2 1	1 2 1 1	1 1 1	1 2 1 1			,	•
2.7140	WASHER, GOVERNOR THROTTLE SHAFT														
1G 5151487 1G 5144178 1G 5101691 1G 5178581	WASHER (2.7430) RETAINER (2.7155) SEAL, RING RING, RETAINER (2.7430)	2 2	2 2 2 2	2 2	2 2 2 2	2 2 2 2	1 1 1 1	2 2 2 2	2 2 2 2	1 1 1	2 2 2 2]		
2.7230	HOUSING ASSY., GOVERNOR CONTROL		ļ												
	INCLUDES ITEMS IN 2.7230, 2.7235 AND 2.7300.									[ſ		
IC,D 8921807 - IC,D 8922346 IE,F 8922953	HOUSING ASSY. HOUSING ASSY. HOUSING ASSY. HOUSING ASSY.		1	1	1	1	1	1	1	1	1				
	* COVER * GASKET, COVER PIN, DOWEL PLUG, 1/2" EXPANSION (12.9330) SPACER, 545" O.D. X .328" I.D. X .389"	1 1 2 1	1 1 2 1	2	2	2	2	2	2	2	2				
11503781	THK. (3.4180) BOLT, M6 X 1.0 X 20.0 MM (12.9001) + NOT SERVICED, USE 8922346 HOUSING ASSY. * OBSOLETE.	3	3	3		!	•								
2.7235	HOUSING, GOVERNOR CONTROL														
8921802 8921799 IC,D,E,F 8921809	* RIVET SPACER SPACER * NOT SERVICED, USE 9438951 AND (1) 120391 WASHER.	2	1	1	1	1	1	1	1	1	1				

PART FIG NUMBER	NAME AND DESCRIPTION	ΙA	 Î	 C		E		G	MML	ı i j	 	 İ		· · · · · ·	ï
	NAME AND DESCRIPTION	}	В		D		F		н		J				1
2.7250	- SHAFT ASSY., GOVERNOR OPERATING			-											
	INCLUDES ITEMS IN 2.7255 AND BEARING IN 2.7260.						, ,	i	i						
8920339	SHAFT ASSY	1	1	1											
2.7255	- SHAFT, GOVERNOR OPERATING							!							
4C,D,E,F 8920298	SHAFT	1	1	1	1	1	1	1	1	1	1				
2.7260	BEARING, GOVERNOR OPERATING SHAFT-UPPER				<u> </u> 										
4C,D,E,F 9431894	BEARING	1	1	1	1	1	1	1	1 ,	1	1		[-
2.7280	LEVER, GOVERNOR OPERATING SHAFT-UPPER			<u> </u> 								;		İ	
4C,D,E,F 8920297 4C,D,E,F 5150898 4C,D,E,F 9421917	LEVER SCREW (GAP ADJUSTING) SCREW & LOCKWASHER ASSY.	1	1	1	1		1		1 1	ĺ	1				
4C,D,E,F 120391 4C,D,E,F 114492	(12.9025) WASHER, 3/16" (12.9190) NUT, LOCK 1/4"-28 (12.9120)	1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1				
2.7290	FORK, GOVERNOR OPERATING SHAFT-LOWER					,									
4C,D,E,F 8920299 4C,D,E,F 9425382	FORK	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2		1 2				
2.7300	PIN, GOVERNOR OPERATING SHAFT LEVER														
4C,D,E,F 8922095 4C,E 142583	PIN, EQUALIZING 7.83M.M.X32.0M.M. L RETAINER, SPRING (12.9640)	1	1	1	1 1	1 1		1 1	1 	1 	1		 		
2.7301	SHAFT, GOVERNOR YIELD														
4C,D,E,F 8920287 4C,D,E,F 8920291 4C,D,E,F 9413225 4C,D,E,F 8920303	SHAFT COUPLING (TO DIFFERENTIAL LEVER) RING, RETAINER WASHER		I 1		1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1				
2.7302	SPRING, GOVERNOR YIELD LINK														
4C,D,E,F 8920302	SPRING	1	1	1	1	1	1	1	1	1	1				
2.7310	LEVER AND PIN ASSY., GOVERNOR DIFFERENTIAL					!	F	Ę	1						
4C,D,E,F 5122744	LEVER		1	1	1	1	1	1	1	1	1				
		1	١	1	ì	1	1	1	1	1	1	1 1	1 1	1	1

PART		 I A	 I	 C	 I	 E		COLI	UMN 1	i i i		_i .	
FIG NUMBER.	NAME AND DESCRIPTION				ĺ		_				_		
. 2721	5 - PIN, GOVERNOR DIFFERENTIAL LEVER		В		D		F		+		J		
4C,D,E,F 5122745	PIN	١,	1	1		1	1	1	1	1	1		1 1
		`	'	'			,	, ·	į .	·			
2.7330	O - CARRIER AND WEIGHT ASSY., GOVERNOR									:			
	INCLUDES ITEMS IN 2.7360, 2.7370, 2.7410, 2.7420, 2.7430 AND 2.7470.				ļ								
8921801 4C,D 8921806 4E,F 8922669	+ WEIGHT ASSY. WEIGHT ASSY. WEIGHT ASSY. + NOT SERVICED, USE 8921806 CARRIER AND WEIGHT ASSY. AND 8922346 HOUSING ASSY.	1	1	1	1	1	1	1	1	1	1		
2.736	- SHAFT, GOVERNOR WEIGHT CARRIER												
8921803 4H 8921786	SHAFT	1	1	1	1	1	1	1	1	1	1		
2.737	. CARRIER, GOVERNOR WEIGHT SHAFT												
8920305 4H 8921787	CARRIER	1	1	1	1	1	1	1	1	1	1		
2.7380) - RISER, GOVERNOR												
4C,D,E,F 5117193	RISER	1	1	1	1	1	1	1	1	1	1		
2.7410	. WEIGHT, GOVERNOR HIGH SPEED												
4H 8920329	WEIGHT	2	2	2	2	2		2	2		2		
2.7420	. WEIGHT, GOVERNOR LOW SPEED								,				
4H 8920328 4H 8922668	WEIGHT	2	2	2	2	2	2	2	2	2	2		
2.7430) - PIN, GOVERNOR WEIGHT												
4H 5122786 4H 9411504	PIN (RING GROOVE) RING, RETAINER	4 4	4	4	4 4	4	2 2		4 4	2 2	4 4		
2.7460	- BEARING, GOVERNOR WEIGHT RISER THRUST												
4C,D,E,F 9437108	BEARING (SINGLE ROW)	1	1	1	1	1	1	1	1	1	1		
2.7470) - BEARING, GOVERNOR WEIGHT SHAFT END										:		
4C,D,E,F 907045	BEARING	1	1	1	1	1	1	1	1	1	1		

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PAGE A 1.3 OF 2.7000A

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	PART		A		C	ΙΊ	E		G	1	1 }	- [1	1	{	!
FIG	NUMBER	NAME AND DESCRIPTION]	i _		_		_]								ļ	ĺ
				В		미		F		H	ľ	J				1	
	2.7480 -	RING, GOVERNOR WEIGHT SHAFT END BEARING SNAP								ł		ļ	ŀ				
4H 4C,D,E,F	11505282 9411502	RING, SNAP		1 1	1	1	1	1	1	1	1	1	}			ļ	
	2.7520 -	COVER, GOVERNOR WEIGHT HOUSING											{			ļ	ļ
4C,D,E,F	8920296 11504471 11504563	COVER (FUEL PUMP ADAPTOR)	1 2 2	1 2 2	1 2 2	1 2 2	1 2 2	1 2 2	1 2 2	1 2 2	1 2 2	1 2 2					
	2.7530 -	GASKET, GOVERNOR WEIGHT HOUSING COVER														ļ	
4C,D,E,F	8920300	GASKET	1	1	1	1	1	1	1	1	1	1			1		
	2.7540 -	SPRING, GOVERNOR LOW SPEED								:							
4C,D 4C,D	5122165 5183704	SPRING (ONE BLUE STRIPE) SPRING (TWO YELLOW STRIPES)	1	1	1	1	1		1	1		1					
	2.7550 -	SPRING, GOVERNOR HIGH SPEED															
4C,D 4C,D	8920304 8923544 *	SPRING SPRING * USE IN PLACE OF 8920304 WHEN A 2400 RPM RATING IS DESIRED.	1 1	1	1 1	1 1	1		1 1 	1		1 1					
	2.7560 -	PLUNGER, GOVERNOR LOW SPEED SPRING															
4C,D	5182555	PLUNGER	1	1	1	1	1		1	1		1				i	
	2.7570	SEAT, GOVERNOR LOW SPEED SPRING															
4C,D	5150892	SEAT	1	1	1	1	1		1	1		1					
	2.7580	CAP, GOVERNOR LOW SPEED SPRING															
4C,D	5103975	CAP	1	1	1	1	1		1	1		1					
	2.7590	SCREW, GOVERNOR LOW SPEED SPRING ADJUSTING															
4C,D	5102270	SCREW, 1/4"-28X1" HEX. SOC	1	1 1	1	1 1	1 1		1 1	1 1		1 1					
4C,D 4C,D	5101432 114492	PIN		1	1	1	ľ		i	i		i					
	2.7610	RETAINER, GOVERNOR HIGH SPEED SPRING															
4C,D	5182557	RETAINER	1	1	1	1	1		1	1	ĺ	1					
			1	1	l	l	ſ	1	1	1	1	1	1	1	ı	ı	1

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PAGE A 1.4 OF 2.7000A

			<i>.</i> .					!	COL	JMN						
FIG .	PART	NAME AND DESCRIPTION	A		C		E		G							
				В		D		F		н		J			ľ	1
	2 .7615 -	LOCKNUT, GOVERNOR HIGH SPEED SPRING RETAINER														
4C,D	5186115	LOCKNUT	1	1	1	1	1		1	1		1				
	2.7635 -	HOUSING, GOVERNOR HIGH SPEED SPRING ADJUSTING SCREW														
	5182559 186270 F 113699 F 5152148	HOUSING BOLT, 5/16"-18 X 3 1/2" (12.9001) BOLT, 3/8"-24 X 1/2" (12.9001) WASHER, 3/8" COPPER (2.4050)	2	2	1	1 2 1 1	1 2 1	1 1	1 2 1	1 2 1 1	1	1 2 1 1			}	
	2.7650 -	GASKET, GOVERNOR HIGH SPEED SPRING COVER			•											
4C,D,E,	F 8922593	GASKET	1	1	1	1	1	1	1	1	1	1				
	2.7680 -	HOUSING ASSY., GOVERNOR VARIABLE SPEED SPRING		,										4.		
		INCLUDES ITEMS IN 2.7690 THRU 2.7750.									,					
	8922885	HOUSING ASSY.						1			1					l
	2.7690 -	HOUSING, GOVERNOR VARIABLE SPEED SPRING							,							
4E,F 4E,F 4E,F 4E,F	5145444 5126789 9417926 5143564	HOUSING PLUG, 5/8" CUP (12.9330) BOLT, 1/4"-20X3/4" (12.9001) BOLT, 1/4"-20X1 1/2" HEX. SKT. HD. IDLE SPEED ADJUSTING (12.9057)				 		1 1 1			1 1 1	<u> </u>				
4E,F	274856	NUT, 1/4"-20 THIN (12.9120)						ĺ			1			,		
	2.7692 -	COVER, GOVERNOR VARIABLE SPEED SPRING HOUSING	 													
4E,F 4E,F 4E,F	5145446 186270 103320	COVER (2.7690)	i.		·			1 2 2			1 2 2	l l				
	2.7693 -	GASKET, COVERING VARIABLE SPEED SPRING HOUSING COVER							 	 						
4E,F	5145445	GASKET (2.7690)			ŀ			1			1			.	ŀ	
	2.7712 -	BEARING, GOVERNOR VARIABLE SPEED SPRING LEVER SHAFT				:						:			i	
4E,F	148402	BEARING (2.7100)						2			2			╷	, 1	
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									<u> </u>						,]	
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																	- 1
FIG .	PART	NAME AND DESCRIPTION	A	1		Ì '	E		G		ï						,
	2.7720	- SHAFT, GOVERNOR VARIABLE SPEED SPRING LEVER		В		D		F		н		J			ļ		
4E,F 4E,F 4E,F	8922702 3291522 103904	SHAFT SPACER, 1/2" (4.2460) KEY, 3/32"X1/2" WOODRUFF (12.9350)	į	!				1 1 2			1 1 2						
	2.7730 -	LEVER, GOVERNOR VARIABLE SPEED SPRING															
		A LEVER ASSY. INCLUDES LEVER NOT SOLD SEPARATELY, PLUSITEMS IN 2.7732.									ı				, ,		
4E,F 4E,F 4E,F 、	5139469 223065 5143665	LEVER ASSY. SCREW, 5/16"-24X1/4" SET (12.9076) WASHER (PACKING RETAINER)				[1 1 1			1 1 1						
	2.7732 -	BEARING, GOVERNOR VARIABLE SPEED SPRING LEVER			!												
4E,F 4E,F	5139468 9425165	BEARING						1			1						
	2.7750 -	PACKING, GOVERNOR VARIABLE SPEED SPRING LEVER SHAFT															
4E,F	5176557	SEAL RING						1									,
	2.7760 -	SPRING, GOVERNOR VARIABLE SPEED]]			
4E,F	8924137	SPRING (ONE WHITE STRIPE)						1			1					ļ	
	2.7770 -	PLUNGER, GOVERNOR VARIABLE SPEED SPRING		!													İ
4E,F	5162661	PLUNGER ,						1			1 					ı	
	2.7780 -	GUIDE, GOVERNOR VARIABLE SPEED SPRING PLUNGER															
4E,F 4E,F	5130093 5130094	GUIDE						1			1 1						
	2.7790 -	RETAINER, GOVERNOR VARIABLE SPEED SPRING															
4E,F	5137276	RETAINER ,						1			1					ĺ	
	2.7795 -	STOP, GOVERNOR VARIABLE SPEED SPRING RETAINER															
4E,F	5171784	STOP (WITH STEP)				<u> </u>		1			1						
																	1

									COL	LENANI					
FIC	PART G NUMBER .	NAME AND DESCRIPTION	A		C		Ë		Ğ		i i				Ì
				В		D		F		н		J			1
	2.780	O - SHIM, GOVERNOR VARIABLE SPEED SPRING		<u> </u>		l			 						
4E,F 4E,F		SHIM, .010"			i]	4 2)		4 2				
	2.781	O - SCREW ASSY., GOVERNOR BUFFER]												
4C,E 4C,E		SCREW ASSY. (INCLUDES SPRING)	1	1 1	1	1 1	1 1		1 1	1		1 1			
	2.781	I - BOLT, MANUAL SHUTDOWN STOP]			,	
4E,F 4E,F		BOLT, 3/8"-24X3.175"				l .	i	1			1 1				
	2.790	2 - LEVER ASSY., GOVERNOR CONTROL LINK HOUSING OPERATING				! 	 								
4C,E),E,F 8920318 8924515	LEVER		1	1	1	1	1	1	1	1	1			
	2.790	FOD, GOVERNOR CONNECTING													
	0,E,F 8921911 0,E,F 8921912 8924638 8924637	ROD (LEFT BANK) ROD (RIGHT BANK) PIN, 70.5 MM PIN, 46.5 MM	1	1	1 1	 1 1	1 1		1 1	1 1	1 1	1			
	5141578 0,E,F 8922898 0,E,F 8921909	WASHER, 21/64" (3.4180) NUT, #10-32 SPECIAL (LEFT BANK) NUT, #10-32 SPECIAL (RIGHT BANK) (2.7902)	1	l	l	1 1	ł	ł	1 1		, 				
	2.706														
4C D		GEAR, GOVERNOR DRIVE GEAR (26 TEETH)	} .												-
40,0	P.E.F 8920190	GEAR (26 TEETH)	1	1	1]	1	1	1	1	1	1		İ	
	2.797	6 - BRACKET, THROTTLE BOOSTER SPRING													
4E,F 4E,F		BRACKETBOLT, M6X1.0X30.0 MM						1 3			1 3				
	2.797	- LEVER, THROTTLE BOOSTER SPRING													
4E,F 4E,F 4E,F	179796	LEVER (2.9410) BOLT, 1/4"-20X7/8" (12.9001) LOCKWASHER, 1/4" (12.9200)			i	:		1 1 1			1 1 1				
	2.7982	2 - EYE, THROTTLE BOOSTER ADJUSTING													
4E,F 4E,F 4E,F		SCREW WASHER, 5/16" (12.9190) LOCKNUT, 5/16"-24 (12.9190)						1 1 2			1 1 2				
)															

2.7000A MECHANICAL GOVERNOR

		2.7000A	MECHANICAL	GOVERNOR														4	
	PART				 I A	 i	 I C I	٠	EI	C	OLL G I	MN	iii		_i .		· ; · ·	.; \	
FIG .		NAN	ME AND DESCRIPT	юмио	_	ſ			-	l	_	{	j	l				1	
						В		D		F		н		J				1	
	2.7985	- HANGER, TH	ROTTLE BOOST	ER SPRING							` }]		Ì				
		A HANGER AS 2.7985.	SSY. INCLUDES ITE	EMS (*) IN											}		ļ		
4E,F	5134696 5134694	* ROLLER ASSY	Y. (2.9349) 7. (INCLUDES BUSI	HING)						1			1		ļ				
4E,F	5134692 274676	BUSHING (2.9 * RING, RETAIN	(349)							1			1						
4E,F 4E,F	5134695 106261	* WASHER, 5/1	24X1.60" (2.9349) 6" (12.9190)		1				1	1		· !	1 1		-	1	- [-	
4E,F 4E,F	120393 114493		6" (12.9190) 16" (2.7170)							1			1 1					1	
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2.9000 INJECTOR CONTROLS

	.FIG	PART . NUMBER	NAME AND DESCRIPTION	2 9 7		YPES			
		2.9003 -	BRACKET, INJECTOR CONTROL TUBE			11			
	5A 5A	8920350 8920435	BRACKETBOLT, M8 X 1.25 X 20.0 MM 12 PT, HD	4				ļ	
		2.9006 -	SHAFT, INJECTOR CONTROL-MAIN						
Ę	ōΑ	8920208	SHAFT	2					
		2.9009 -	LEVER, INJECTOR CONTROL TUBE			11		11	
	5A 5A	8920212 8920435	LEVER BOLT, M8 X 1.25 X 20.0 MM 12 PT. HD. (2.9003)	2					
		2.9011 -	SPRING, INJECTOR CONTROL TUBE THROTTLE						
Ę	ōΑ	8921715	SPRING	2		((1	
		2.9012 -	SPRING, INJECTOR CONTROL TUBE						
5	ōΑ	8926733	SPRING	8		1 1			
		2.9014 -	LEVER, INJECTOR CONTROL TUBE RACK			ŀ			
5	5A 5A 5A	8920789 8921124 8921220 8920349	LEVER CLIP, NUT #10-32 SCREW, #10-32 X .330" SCREW, #10-32 X 1/2" SPL.	2					
			j						
)					1	1 1	I I	1 1	I I

2.9000A THROTTLE CONTROLS

2.9000A THROTTLE CONTROLS													4	
PARTFIG NUMBERNAME AND DESCRIPTION	9 7 5			}		TYPE	S							
2.9410 - LEVER, GOVERNOR CONTROL					1						}			
5113338 LEVER	1 1											į		
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						!								

GROUP NOMENCLATURE

1.0000	ENGINE (less major assemblies)	5.0000	COOLING SYSTEM (CONT'D)
1,1000	Cylinder Block	5.4000B	Fan Shroud
1.1000A	Air Box Drains	5.5000A	Heat Exchanger or Keel Cooling
1.2000	Cylinder Head	5.6000A	Raw Water Pump
1.2000A	Engine Lifter Bracket	5.7 00 0A	Water Filter
1.3000	Crankshaft, Oil Seals and Stabilizers	c 0000	CVIIA HOT OVOTES
1.3000A	Crankshaft Front Cover	6.0000	EXHAUST SYSTEM Exhaust Manifold and/or Connections
1.3000B	Vibration Damper	6.1000A 6.2000A	Exhaust Muffler and/or Connections
1.3000C	Crankshaft Pulley	6.2000A	Exhaust Mumer and/or Connections
1.3000D 1.4000A	Crankshaft Pulley Belt Flywheel	7.0000	ELECTRICAL INSTRUMENTS
1.5000A	Flywheel Housing	7.1000A	Battery Charging Generator
1.5000A	Flywheel Housing Adaptor	7.1000A 7.2000A	Battery Cables
1.6000	Connecting Rod and Piston	7.2000B	Automatic Starting
1.7000	Camshaft and Gear Train	7.2000B	Automatic Starting (Twin and Quad)
1.7000A	Balance Weight Cover	7.30 00 A	Starting Motor
1.7000B	Accessory Drive	7.4000A	Instruments
1.8000	Valve and Injector Operating Mechanism	7.4000A	Instruments (Twin and Quad)
1.8000A	Rocker Cover	7.4000B	Tachometer Drive
		7.4000B	Tachometer Drive (Twin and Quad)
2.0000	FUEL SYSTEM	7.4000C	Shutoff, Alarm and O.S. Governor
2.1000A	Fuel Injector	7.4000C	Shutoff, Alarm and O.S. Governor (Twin and Quad)
2.2000	Fuel Pump	7.5000A	Power Generator
2.2000A	Fuel Pump Drain	7.6000A	Control Cabinet
2.3000A	Fuel Filter and Strainer	7.6000A	Control Cabinet (Twin and Quad)
2.3000A	Fuel Filter and Strainer (Twin and Quad)	7.7000A	Wiring Harness
2.4000	Fuel Manifold and/or Connections	7.8000A	Air Heater
2.4000A	Dual Fuel System	7.8000A	Air Heater (Twin and Quad)
2.5000A	Fuel Lines and Fuel Cooler	7.10000A	Hydraulic Governor Solenoid
2.5000A	Fuel Lines and Fuel Cooler (Twin and Quad)		DOWED TAKE OFF
6000A	Fuel Tank	8.0000	POWER TAKE-OFF Power Take-off and/or Clutch
.6000B	Electric Governor	8.1000A	Power Take-off and/or Clutch (Twin and Quad)
2.7000A	Mechanical Governor	8.1000A	
2.8000A	Hydraulic Governor	8.3000A	Torque Converter Torque Converter (Twin and Quad)
2.9000	Injector Controls	8.3000A	Transmission Lines
2.9000	Injector Controls (Twin and Quad)	8.3000B	Hanzinizzion Pinez
2.9000A	Throttle Controls	0.0000	TRANSMISSION AND PROPULSION
2.9000A	Throttle Controls (Twin and Quad)	9.0000 9.1000A	Hydraulic Marine Gear
3.0000	AIR SYSTEM	9.1000A 9.1000A	Hydraulic Marine Gear (Twin and Quad)
3.1000A	Air Cleaner and/or Adaptor	9.2000A	Reverse and Reduction Gear (mechanical)
3.2000A	Air Cleaner and/or Adaptor	9.3000A	Power Transfer Gear
3.3000A	Air Inlet Housing	9.3000A	Power Transfer Gear (Twin and Quad)
3.4000	Blower and Drive	9.4000	Transmission-Highway
3.4000A	Blower Drive Shaft	9,7000	Transmission—Off-highway
3.4000B	Blower End Plate Cover	9.9000	Transmission—Rail Car
3.5000A	Turbocharger, Intercooler, and Aftercooler	3.5000	
0.0000.	Turbonargor, microsolar, and / microsolar	10.0000	SHEET METAL
4.0000	LUBRICATING SYSTEM	10.1000A	Engine Hood
4.1000A	Oil Pump		
4.1000B	Oil Distribution System	11.0000	ENGINE MOUNTING
4,1000C	Oil Pressure Regulator	11.1000A	Engine Mounting and Base
4.2000A	Oil Filter	11.1000A	Engine Mounting and Base (Twin and Quad)
4.3000A	Oil Filter Lines		
4.4000A	Oil Cooler and Marine Gear Lines	12.0000	MISCELLANEOUS
4.5000A	Oil Filler	12.2000A	Bilge Pump
4.6000A	Dipstick	12.3000A	Vacuum Pump
4.7000A	Oil Pan	12.4000A	Air Compressor
4.8000A	Ventilating System	12.5000A	Hydraulic Pump
		12.6000A	Gasoline Starter
5.0000	COOLING SYSTEM	12.6000B	Air Starter
5.1000	Fresh Water Pump	12.6000C	Cold Weather Starting Aid
5.1000A	Fresh Water Pump Cover	12.6000D	Hydraulic Starter Accessories
2000A	Water Outlet Manifold and/or Elbow	12.6000E	Hydraulic Starter Accessories
.20008	Thermostat	12.8000A	Supplies Fabrication Material
5.2000C	Water Bypass Tube	12.8000B 12.8000C	Miscellaneous Service Kits and Sets
5.3000A 5.3000B	Radiator Water Connections	12.8000C	Miscellaneous Service Parts
5.4000A	Fan	12.0000	mildening an east of a second
J.+000A	t gent		

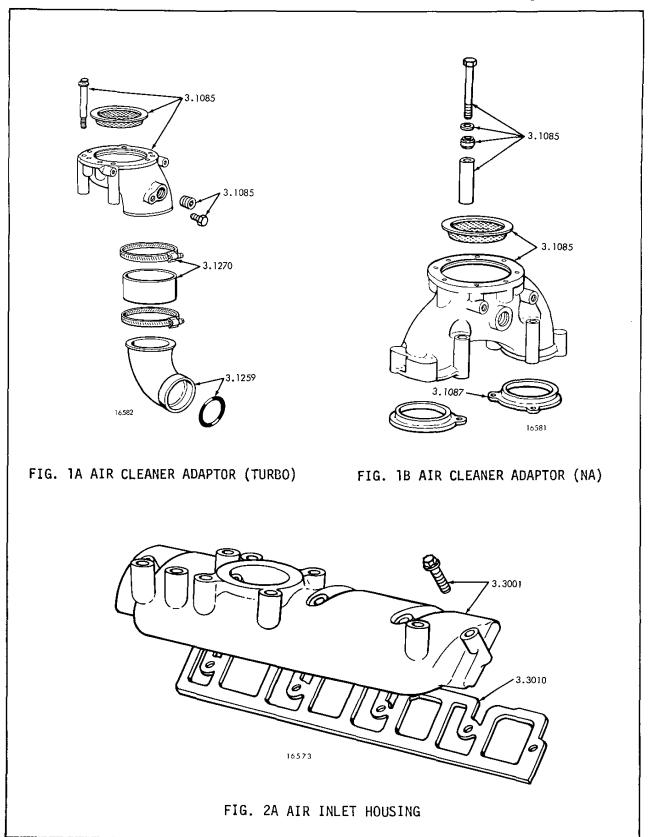
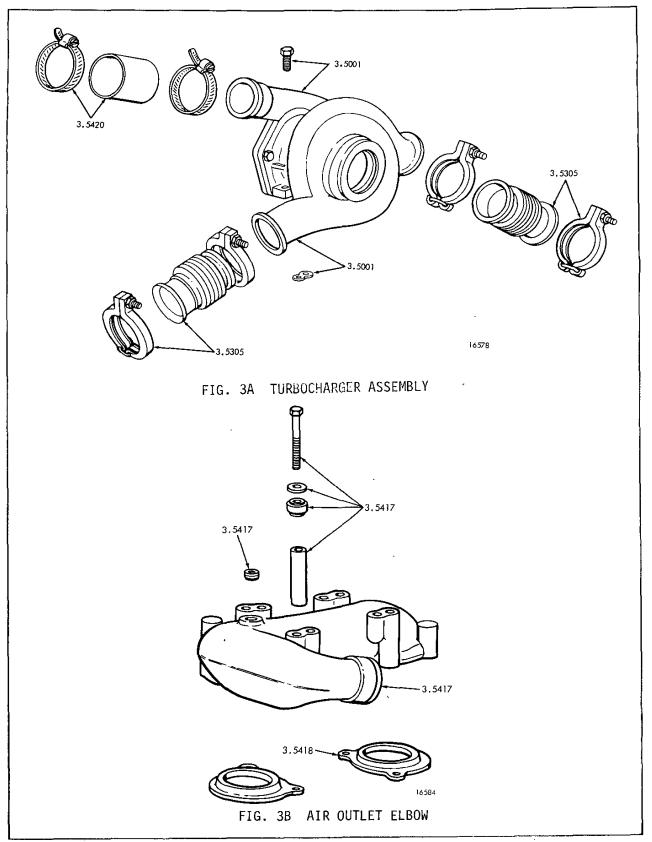


Fig. 1A, 1B & 2A of 3.0000

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Figs. 3A & 3B of 3.0000

Jan., 1980 © 1980 General Motors Corp.

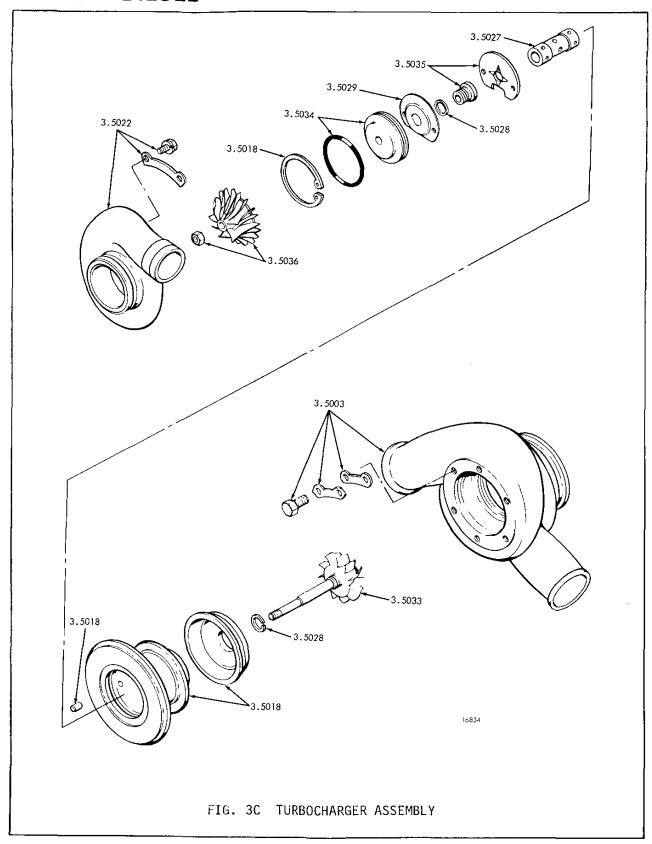


Fig. 3C of 3.0000

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3.1000A AIR CLEANER AND/OR ADAPTOR

)	FIG	PART NUMBER	NAME AND DESCRIPTION	3 6 5	3 6 6	3 7 2	3 7 3	3 7 5	T	YPES]			
		3.1085	ADAPTOR, AIR CLEANER MOUNTING											
	1A 1B 1A,B	8922956 8922957 8923120 5127238 8920732 8927214	ADAPTOR (TURBO) ADAPTOR (NON-TURBO) ADAPTOR (NON-TURBO) ELBOW SCREEN SCREEN (NON-TURBO; CLOSED BREATHER SYSTEM)	1	1	1	1	1 1 1				:		
	1B 1A 1A 1B 1B	8921711 8922980 8922304 5142549 11505269 11507013 11505223 8921710	SLEEVE PLUG, CUP 1" (12.9320) PLUG, 1/8" PIPE (12.9550) PLUG, 3/4" PIPE (12.9550) BOLT, M8X1.25X55.0 MM (12.9001) BOLT, M8X1.25X100.0 MM (12.9001) BOLT, M8X1.25X120.0 MM (12.9001)	1 1 1	4 1 1 1	4 1 1 4	4 4	1						
	1A 1B	8920438 8921426 5181062	ISOLATOR BOLT, M10X1.5X30.0 MM (2.7001) BOLT, M10X1.5X100.0 MM 12 PT. HD. WASHER, .39"X.94"X.120" (5.1080)	4	4	4		4	į			į		
		3.1087 -	GASKET, AIR CLEANER MOUNTING ADAPTOR											
	1B	8921883 8922876 5127247	GASKET ASSY. (3.5418) GASKET GASKET		2	2	2	1	,	i				
)		3.1259 -	ELBOW, TURBOCHARGER AIR INLET						ĺ					1
	1A 1A	8920258 8920203	ELBOW SEAL RING	1				1	į					
		3.1270 -	HOSE, AIR INLET PIPE											
	1A 1A	5125281 5118393	HOSE, 4" I.D. X 8" L. (CUT L. 2.26") CLAMP (4 1/2" DIA.) (12.9660)	1 2				1 2						
													and the state of t	

3.2000A AIR SILENCER

	3.2000A AIR SILENCER										
						TYPES	3				·; 🕶
PART FIG NUMBER	NAME AND DESCRIPTION	5 9	6			ļ	ļ				
3.2001	- SILENCER, AIR							(
8923123	SILENCER	1	1					1			
3.2013	- CLAMP, AIR SILENCER MOUNTING										
8924286 8924291	CLAMP SLEEVE, LONG	1 1	1	}			i				
8924356	SLEEVE SHORT		1							}	<u> </u>
11500429 11500427	BOLT, M8X1.25X90.0 MM (12.9001) BOLT, M8X1.25X65.0 MM (12.9001)		1	1 1 1	1)	Ì	Ì]])	l Ì	
11500191	LOCKWASHER, M8 (12.9200)	1	1			- 1		1	-		
11501066	NUT, M8X1.25 (12.9190)	1	1	{			-	1 (
3.2017	- HOSE, TURBO TO AIR SILENCER					- }	}				
5125281	+ HOSE, 4"X2.26"L. (3.1270)	1	1								
3.2018	- CLAMP, TURBO TO AIR SILENCER HOSE	i i									
5118393	CLAMP, HOSE (12.9660)	2	2								
		ļ		[\ \
									1		
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									-		

3.3000A AIR INLET HOUSING

		3.3000A AIR INLET HOUSING										
	PART			 I	 I I	 i i	TYF	PES		_i	i	<u>.</u>
FIG	NUMBER	NAME AND DESCRIPTION	6	7		 					1 1	
				7]]]]]]	,]]]	
	3.3001	- HOUSING ASSY., AIR INLET										
2A	8920259 8922317	HOUSING ASSY. HOUSING ASSY.	2	2								
2A	8922324	BOLT, M10X1.5X56.0 MM	10	10						- }		
	3.3010	- GASKET, AIR INLET HOUSING										
2A	8920247	GASKET	2	2] }	
			ł			1 1		}	11		1 1	
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							. TYPES					
FIG	PART NUMBER	NAME AND DESCRIPTION	4 3	6 9 3	6 9 4							
	3.5001 -	TURBOCHARGER				.		11			1	
		SEE ASSEMBLY BREAKDOWN PAGE A1.			 			1 1	1.	\ 		
3A	8920678	TURBOCHARGER ASSY. (SCHWITZER	1					1 1				
	8923640	#L-18553)	'	1	1		1					
3A	8923184 5111798	SEAL, OIL (TURBO TO BLOCK)	1	1 3	3		1 1					
3A	11505281 8925982 5108446	BOLT, M10 X 1.5 X 30 MM (11.1070) STUD, M10X1.5X55.0 MM (12.9117) WASHER. 13/16"X29/64"X.1046"	2	4	4			} }				
	11500586	(12.9190) NUT, M10X1.5 (12.9120)		4 4	4 4			1				
	3.5305 -	CONNECTOR, TURBOCHARGER EXHAUST INLET										
3A	8920280 8925106	TUBE (L. & R. BANK) TUBE, CROSSOVER	2	١,	1							
3A	5111798 8920206	PLUG, 1" PIPE (12.9550) CLAMP, V BAND	4	3	3		\ \	1 1			l	
3A	8920438	BOLT, M10X1.5X30.0 MM (2.7001)		8	8							
	3.5307 -	GASKET, TURBOCHARGER EXHAUST INLET CONNECTION										
	8923133 8925110	GASKET GASKET		1	1							
	3.5417 -	ELBOW, TURBOCHARGER AIR OUTLET				1 1 1						
3B	8921516 8923120	ADAPTORADAPTOR	1	1	1							
3B	8921711 5121182	SLEEVE (3.1085)	4			$ \cdot $			ļ			
	11505269 11507013	BOLT, M8X1.25X55.0 MM (12.9001)		4	4							
	11505223 8921710	BOLT, M8X1.25X120.0 MM (12.9001)	4 4			1						
3B	5181062	WASHER, .39"X.94"X.120" (5.1080)	4									
	3.5418	GASKET, TURBOCHARGER AIR OUTLET ELBOW										
3B	8921883 8922876	GASKET ASSY		2	2							
	3.5420	HOSE, TURBOCHARGER AIR OUTLET CONNECTION										
3A 3A	5103399 9139809	HOSE, 2 1/2" I.D. X 2 3/8" L	1 2									
			1									
	٠											

	3.3000A TORBOCHANGEN, INTERCOOLE		10,		· COOL	.п					
PART NUMBER	NAME AND DESCRIPTION	4 4 3	6 9 3	6 9 4		τ ^ν	YPES .				
3.5422	ADAPTOR, TURBOCHARGER TO AIR INLET HOUSING										
8923484	CONNECTOR		1	1							
3.5424	- HOSE, TURBOCHARGER AIR INLET CONNECTION										
5162888 5103399 9139813 5102013	HOSE, 3.50" I.D. X 3.75" L. (3.5420) HOSE, 2.50" I.D. X 3.375" L. (3.5420) CLAMP, 3.50" HOSE (3.5400) CLAMP, 2.50" HOSE (12.9660)		1 1 2 2	1 1 2 2							
3.5500	TUBE, TURBOCHARGER OIL SUPPLY										
8924384	HOSE		1	}							
5107855 NPN 5101020	HOSE ASSY., #6X22.5" L. (2.5149) ELBOW, 90 DEG. 3/8" TUBE STRAP, NYLON TIE (2.5255)		2 AR	1 2 AR					1.		
3.5503	COVER, TURBOCHARGER OIL RETURN										
8923420 8923563 8920438	COVER, PORT COVER, ST&D. BOLT, M10X1.5X30.0 MM (2.7001)		1	1 2							į
3.5504	GASKET, TURBOCHARGER OIL RETURN COVER										
8923130	GASKET		1	1							
3.5505	TUBE, TURBOCHARGER OIL RETURN										
8923403 8923561 5169721 5104358 179839 103341 103321	TUBE, PORT TUBE, STBD. HOSE, 7/8" (CUT L. 1.74") (4.8010) CLAMP, 1" (12.9660) BOLT, 3/8"-16X1" (12.9001) WASHER, 3/8" (12.9190) LOCKWASHER, 3/8" (12.9200)		1 2 2 2 2	1 1 2 2 2 2 2				:			
			Ļ				7.00				
							-				
	l	I		J	1 1						1

						COLUMN	, , , , , , ,			
	PART		A	i	í 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		1 1	- }	
, .FIG	. NUMBER	NAME AND DESCRIPTION						ĺĺ		l
				В	}			il		i
	0.5004	TURROCUARCER	1	1	1 1 1 1	1 1]]]	1 1	.]	1
	3.5001 -	TURBOCHARGER						- 1 - 1	, }	1
3A	8920678	TURBOCHARGER ASSY. (SCHWITZER	١,							Ì
	8923640	#L-185533) TURBOCHARGER ASSY. (AIRESEARCH			1 1 1					1
	••	#466082-1)		1	1 1 1	1 1				
						} }			1 1	Į.
	3.5003 -	HOUSING, TURBOCHARGER TURBINE]]]] [i i		
3C	8921766	HOUSING ASSY. (INCLUDES PIN)	1							
30	8927065	HOUSING ASSY, (INCLUDES PLUGS)	i	1	1 1 1 1	1 1	[] [1 1	1
3C	8921750 8921749	PLATE, LOCK PLATE, CLAMP	3		1 1 1					
3C	5149554	CLAMP	'	3						
3C	8921753	SCREW, 5/16"-18X.828" (12.9001)	6	6	1 1 1 1	\ \	1 1 1		1 1	1
	8927066	BULT, 5/16 -16X1/2		١			}		1	
	2 5040	HOUSING ASSY., TURBOCHARGER								
	3.5018 -	INTERMEDIATE		l	1		 	- '	1 1	1
00	0001700	HOUSING ASSY. (INCLUDES PIN)	1	1	1					
3C	8921762 8927056	HOUSING ASSY.	1	1		1 1	, l l		ļi	
3C	8921759	HOUSING		1	1 1 1 1	4 1	1 1 1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1	1
	8927057 8927059	HOUSING SHROUD, WHEEL		i			1			
	5149543	BEARING, THRUST		1 2			1		1	
3C	5149356 8921756	PLATE, LOCK RING, SNAP	1		1 1 1 1	1 1	1 1 1	1	1 1	1 4
	8927061	RACKPLATE ASSY TURBO		1 1	1					(
	5198936 5149545	RING, SEAL		1 4					!	`
	5199620	PIN 100" DIA X 2 50" L	1	1 2	1 1 1 1	1 1	1 1 1	1	1 1	Ì
	8927058	BOLT, 5/16"-18X3/8"	-	4			<u> </u>	}]	
		THE THE PARTY OF T						}	1	
	3.5022 -	HOUSING, TURBOCHARGER COMPRESSOR	1	Ì	1 1 1 1	1 1] []	}]]	
3C	8921767	HOUSING	1	١.				ı I		
3C	8927064 8921748	HOUSINGPLATE, CLAMP	3	1		1 1		ı l		
	5149551	CLAMP	1	1						
3C	8921754	SCREW ASSY., 1/4"-20 X .62" (W/LOCKWASHER)	6							1
	8927058	BOLT, 5/16"-18X3/8"		4		{	$\{ \mid \mid \mid \mid$. I	1 1	ļ
	,									
	3.5027 -	BEARING, ROTOR ASSY. SHAFT								
30	9021765	BEARING	1	1	1 1 1	[]		(\ \	-
3C	8921765 5149540	BEARING		2	:		1 1			
								1		
	3.5028 -	SEAL, ROTOR ASSY. SHAFT OIL		-	1			{	\ \	-
22			1							
3C 3C	8921757 8921747	RING, SEAL (PISTON RING TYPE)	1		1 1 1 1					
	5149537	RING, SEAL (PISTON RING TYPE)		1 1			{ }		1 1	- {
	5149538	RING, SEAL (PISTON RING TYPE)		'						
		PERIFORM BOTOR ACCU CHAFT OF								
	3.5029	DEFLECTOR, ROTOR ASSY. SHAFT OIL			1 1 1	-	1 1	1 1	1 1	1
3C	8921758	DEFLECTOR, OIL	. 1							
			1		1 1 1				1	1 (
										•

		3.5000A TURBOCHARGER, INTERCOOLE	RAI	ND A	AFTERC	OOLER						
	- ·						. COLL	JMN				
FIG	PART	NAME AND DESCRIPTION	A		1 1			J	1 1		1 1	- 1
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			ľ	В	1 1	+	1 1	ł	1 1	ł	1 1	- {
	3.5033 -	SHAFT ASSY., TURBOCHARGER ROTOR							1 1			- }
3C	8921760	SHAFT ASSY. (INCLUDES INTEGRAL					i l	1				- [
••		WHEEL)	1			1 1						
	8927060	SHAFT ASSY. (INCLUDES INTEGRAL WHEEL)		1					1 1		1 1	
		***************************************	l	'		1 1	1 1	- 1	1			
	0.5004	COLLAR TURNOULARDED DOTOR						- 1			1 1	- 1
	3.5034 -	COLLAR, TURBOCHARGER ROTOR THRUST							ļ			
30	0004700	0011.40					1 1					
3C	8921763 5149547	COLLARCOLLAR] 1	1		1						
3C	8921755	RING, SEAL	1			1	1 1	Ĭ	1			
							[{	[
	3.5035 -	SPACER, TURBOCHARGER ROTOR THRUST	1					- 1				
		IRROSI			1 l							1
3C 3C	8921751 8921761	SPACER	1 1					1				- 1
30	0321701	WASHEN, IHRUST	'									
	3 5036	WHEEL, TURBOCHARGER COMPRESSOR	ľ	ĺ	1 1	1 1	1 1		1 1	-	1	ł
						1						
3C	8921764 8927062	WHEEL	1	1								
3C	8921752	NUT, 5/16"-24	1	'								
	8927063	NUT, LOCK		1		1 1						
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GROUP NOMENCLATURE

1.0000	ENGINE (less major assemblies)	5.0000	COOLING SYSTEM (CONT'D)
1.1000	Cylinder Block	5.4000B	Fan Shroud
1.1000A	Air Box Drains	5.5000A	Heat Exchanger or Keel Cooling
1.2000	Cylinder Head	5.6000A	Raw Water Pump
1.2000A	Engine Lifter Bracket	5,7000A	Water Filter
1.3000	Crankshaft, Oil Seals and Stabilizers	4	
1.3000A	Crankshaft Front Cover	6.0000	EXHAUST SYSTEM
1.3000B	Vibration Damper	6.1000A	Exhaust Manifold and/or Connections
1.3000C	Crankshaft Pulley	6.2000A	Exhaust Muffler and/or Connections
1.3000C	Crankshaft Pulley Belt	U.2000A	Extract manner street and a second
		7.0000	ELECTRICALINSTRUMENTS
1.4000A	Flywheel	7.1000A	Battery Charging Generator
1.5000A	Flywheel Housing		Battery Cables
1.5000B	Flywheel Housing Adaptor	7.2000A	Automatic Starting
1.6000	Connecting Rod and Piston	7.2000B	Automatic Starting (Twin and Quad)
1.7000	Camshaft and Gear Train	7.2000B	Starting Motor
1.7000A	Balance Weight Cover	7.3000A	
1,7000B	Accessory Drive	7.4000A	Instruments
1.8000	Valve and Injector Operating Mechanism	7.4000A	Instruments (Twin and Quad)
1.8000A	Rocker Cover	7.4000B	Tachometer Drive
		7.4000B	Tachometer Drive (Twin and Quad)
2.0000	FUEL SYSTEM	7.4000C	Shutoff, Alarm and O.S. Governor
2,1000A	Fuel Injector	7.4000C	Shutoff, Alarm and O.S. Governor (Twin and Quad)
2.2000	Fuel Pump	7.5000A	Power Generator
2.2000A	Fuel Pump Drain	7.6000A	Control Cabinet
2,3000A	Fuel Filter and Strainer	7.6000A	Control Cabinet (Twin and Quad)
2.3000A	Fuel Filter and Strainer (Twin and Quad)	7.7000A	Wiring Harness
2.4000	Fuel Manifold and/or Connections	7.8000A	Air Heater
2,4000A	Dual Fuel System	7.8000A	Air Heater (Twin and Quad)
2.5000A	Fuel Lines and Fuel Cooler	7,10000A	
		7,10000	Try State to Control of Control
2.5000A	Fuel Lines and Fuel Cooler (Twin and Quad)	8.0000	POWER TAKE-OFF
2.6000A	Fuel Tank		Power Take-off and/or Clutch
2.6000B	Electric Governor	8.1000A	Power Take-off and/or Clutch (Twin and Quad)
2.7000A	Mechanical Governor	8.1000A	
2.8000A	Hydraulic Governor	8.3000A	Torque Converter
2.9000	Injector Controls	8.3000A	Torque Converter (Twin and Quad)
2.9000	Injector Controls (Twin and Quad)	8.3000B	Transmission Lines
2.9000A	Throttle Controls		
A000e.2	Throttle Controls (Twin and Quad)	9.0000	TRANSMISSION AND PROPULSION
		9.1000A	Hydraulic Marine Gear
3.0000	AIR SYSTEM	9.1000A	Hydraulic Marine Gear (Twin and Quad)
3.1000A	Air Cleaner and/or Adaptor	9.2000A	Reverse and Reduction Gear (mechanical)
3.2000A	Air Silencer	9.3000A	Power Transfer Gear
3,3000A	Air Inlet Housing	9.3000A	Power Transfer Gear (Twin and Quad)
3.4000	Blower and Drive	9.4000	Transmission—Highway
3.4000A	Blower Drive Shaft	9.7000	Transmission—Off-highway
	Blower End Plate Cover	9.9000	Transmission-Rail Car
3.4000B	= · + • • · · · · · · · · · · · · · · · ·	3.3000	1101121111021011 11011
3.5000A	Turbocharger, Intercooler, and Aftercooler	10 0000	SHEET METAL
		10.0000 10.1000A	
4.0000	LUBRICATING SYSTEM	(U, 1000A	Engine Hood
4.1000A	Oil Pump	44 0000	ENGINE MOUNTING
4.1000B	Oil Distribution System	11.0000	
4.1000C	Oil Pressure Regulator	11.1000A	Engine Mounting and Base Engine Mounting and Base (Twin and Quad)
4,2000A	Oil Filter	11.1000A	Engine Mounting and Dase (1 will and Goad)
4.3000A	Oil Filter Lines		
4.4000A	Oil Cooler and Marine Gear Lines	12.0000	MISCELLANEOUS
4.5000A	Oil Filler	12.2000A	Bilge Pump
4.6000A	Dipstick	12.3000A	Vacuum Pump
4,7000A	Oil Pan	12.4000A	Air Compressor
4.8000A	Ventilating System	12.5000A	Hydraulic Pump
		12.6000A	Gasoline Starter
5.0000	COOLING SYSTEM	12.6000B	Air Starter
5.1000	Fresh Water Pump	12.6000C	Cold Weather Starting Aid
5.1000 5.1000A	Fresh Water Pump Cover	12.6000D	Hydraulic Starter
5.2000A	Water Outlet Manifold and/or Elbow	12.6000E	Hydraulic Starter Accessories
5.2000A 5.2000B	Thermostat	12.8000A	Supplies
	Water Bypass Tube	12.8000B	Fabrication Material
5.2000C		12.8000C	Miscellaneous Service Kits and Sets
5,3000A	Radiator	12.8000D	Miscellaneous Service Parts
5.3000B	Water Connections	12.00000	foregoing and market and market and an arrangement and an arrangement and arrangement arrangement and arrangement arrangement and arrangement arrangem
5.4000A	Fan		

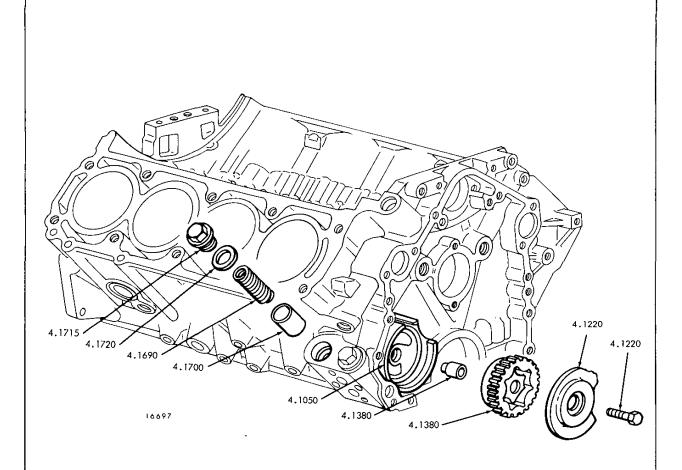


FIG. 1A OIL PUMP & OIL PRESSURE REGULATOR VALVE

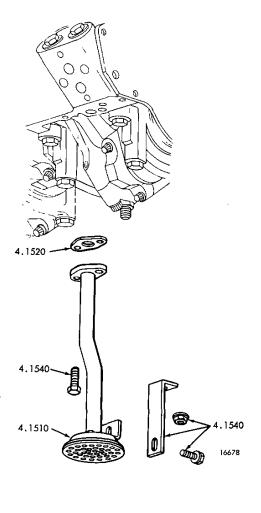


FIG. 1B OIL DISTRIBUTION

Fig. 1B of 4.0000

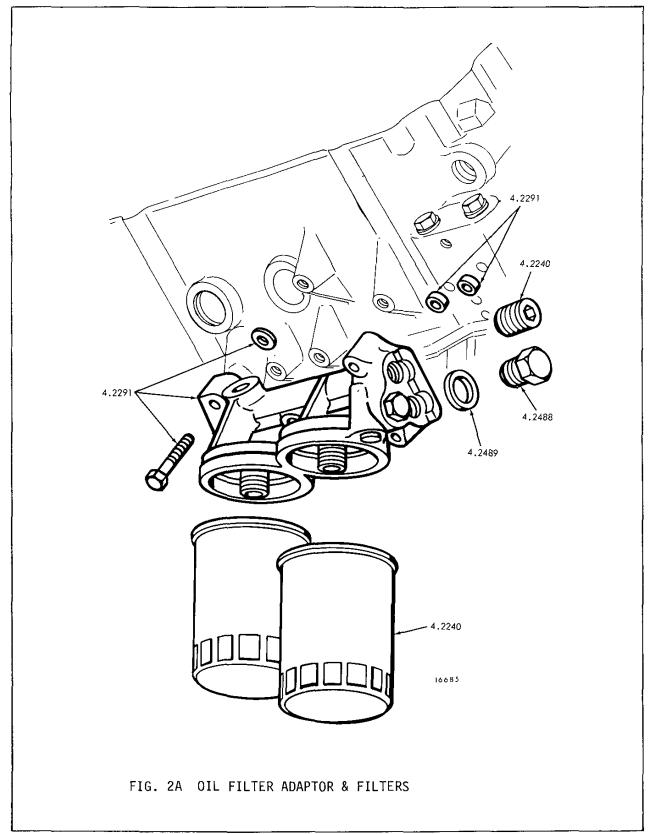


Fig. 2A of 4.0000

Oct., 1979

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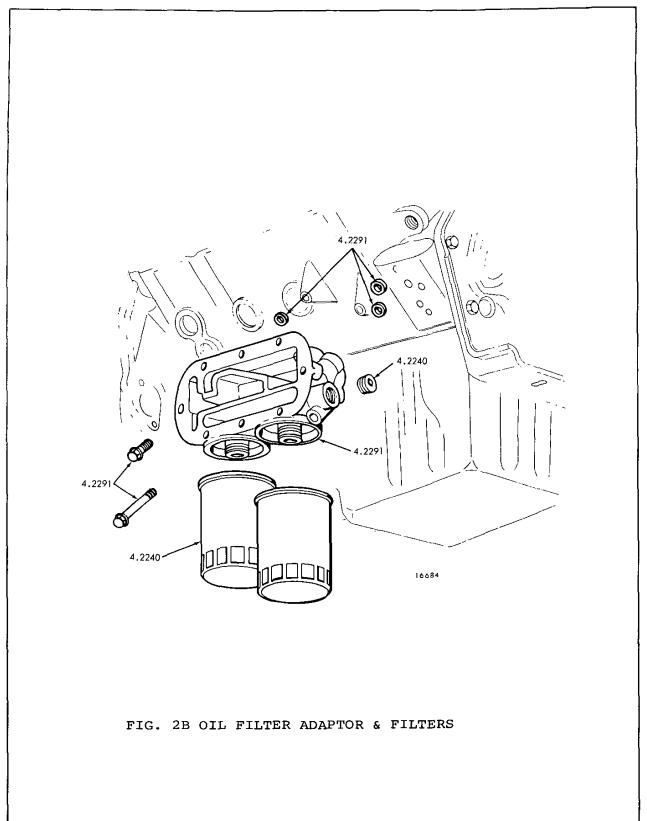


Fig. 2B of 4.0000

Oct., 1979

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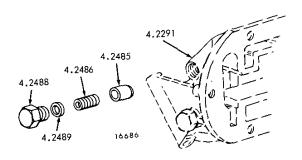


FIG. 2C OIL COOLER BY PASS VALVE

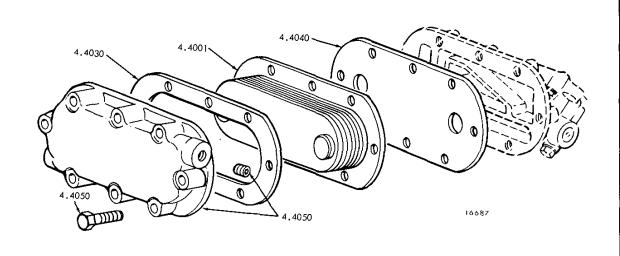


FIG. 3A OIL COOLER

Figs. 2C & 3A of 4.0000 Jan., 1980 © 1980 General Motors Corp.

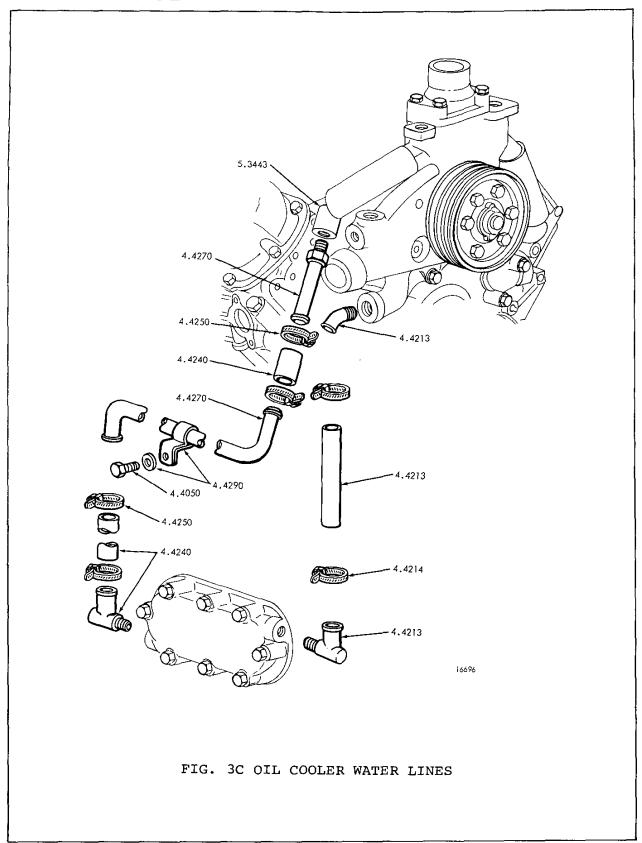
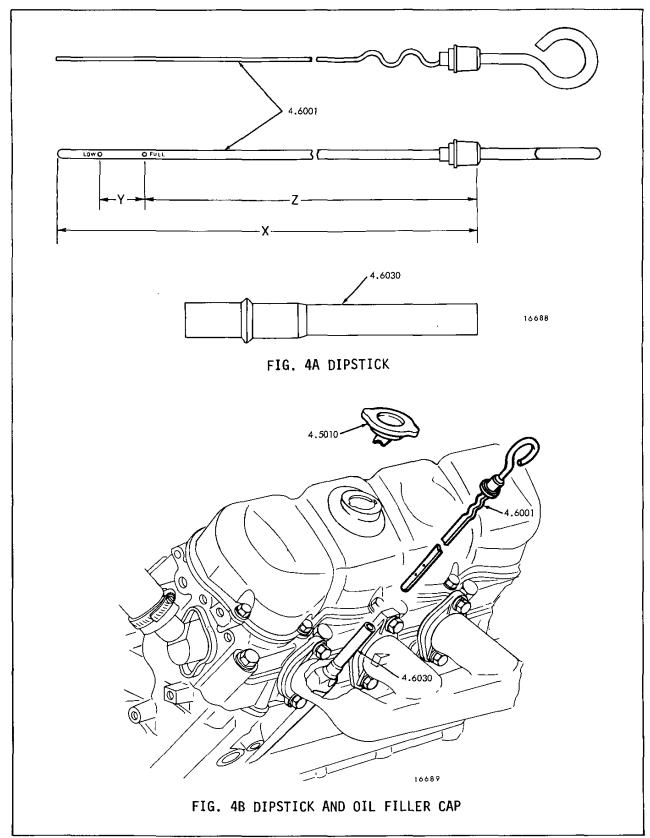


Fig. 3C of 4.0000

DETROIT DIESEL



Figs. 4A & 4B of 4.0000

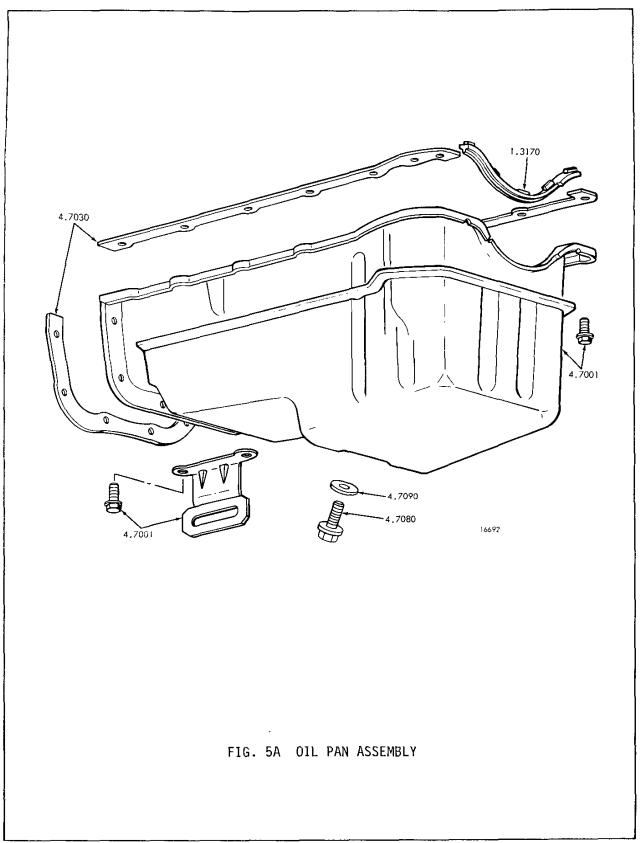


Fig. 5A of 4.0000

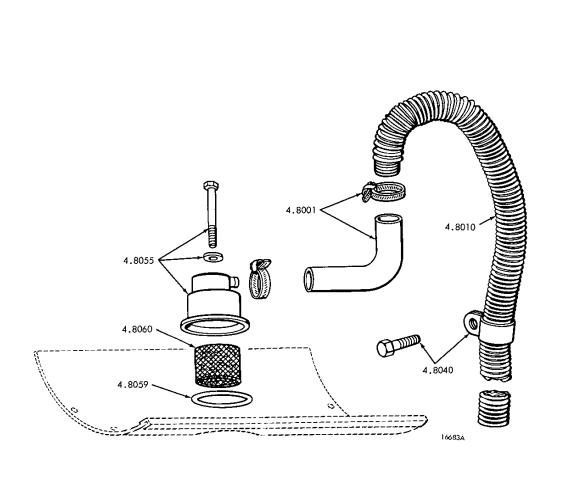


FIG. 6A VENTILATING SYSTEM

Fig. 6A of 4.0000

4.1000A OIL PUMP

		4.1000A OIL PUMP	
		TYPES	
FIG .	PART NUMBER	NAME AND DESCRIPTION	
	4.1050	BUSHING, OIL PUMP BODY	
1A	8922093 8921673 8921672	BUSHING (STD.) 1 BUSHING (.010" O.S.) AR BUSHING (.020" O.S.) AR	
	4.1220	COVER, OIL PUMP	
1A 1A	8920196 8922232	COVER	
	4.1380	GEAR, OIL PUMP DRIVE ON PUMP	
		GEAR ASSY. INCLUDES (1) INNER AND (1) OUTER GEAR NOT SERVICED SEPARATELY.	
1A 1A	8921173 8921203	GEAR ASSY., GEROTOR (45 TEETH)	

4.1000B OIL DISTRIBUTION SYSTEM

		4.1000B	OIL DISTRIBUTION	SYSTEM										_
FIG	PART NUMBER	NAN	IE AND DESCRIPTION		4 5 5	4 9 4	4 9 5		TYPES		·····			
	4.1510 -	PIPE, OIL PL	JMP INLET						Ì		Ì		. 1	
1B	8920423	PIPE			1						-			
1B 1B	8925734 8924763 8920435	PIPE ASSY	5X20.0 MM (2.9003)		2	2	1 2						, }	
	4.1520 -	GASKET, OIL	PUMP INLET PIPE	.									i \	
1B	5126473	GASKET			1	1	1				1			
	4.1540 -	BRACKET, O	L PUMP SCREEN	SUPPORT										
1B	8920426 8925735	BRACKET			1	1	1							
1B 1B 1B	8924764 11504505 11502716	BOLT, M8X1.2	5X20.0 MM (12.900° 6 MM (12.9120)	1)	1 2	1	1	Ì			Í			
18	11502811	NUT, M8X1.25	MM (2.5220)			2	2							
													\ \	
													•	
														!
							l		ļļ					1

4.1000C OIL, PRESSURE REGULATOR

		4.1000C OIL, PRESSURE REGULATOR											
FIG .	PART	NAME AND DESCRIPTION	2 5	 	 	 	 	TYP	ES			 	: <u>;</u>
	4.1690	- SPRING, OIL PRESSURE REGULATOR											
1A	8920407	SPRING	2					$ \ $					
	4.1700	- VALVE, OIL PRESSURE REGULATOR											
1A	8920463	VALVE	2								1 1		
	4.1715	PLUG, OIL PRESSURE RELIEF	ŀ										
1A	8920405	PLUG, 1 1/4"-16	2										
	4.1720	GASKET, OIL PRESSURE REGULATOR PLUG						1 1					
1A	5575086	GASKET (4.2489)	2			·							
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			l										
			ł			}			-				
]							
			l			ì	I		Ι,	1	1	1]

4.2000A OIL FILTER

		MEGORA GIETIEIEN					TWEE
FIG .	PART NUMBER	NAME AND DESCRIPTION	3 4 6	3 4 7	4 5 3	4 6 4	
	4.2240 -	FILTER ASSY., OIL					
2A	6438384 25011122	CARTRIDGE, SPIN ON (PF-35)	2	2	1	2	
	4.2440	BRACKET, OIL FILTER MOUNTING					
	8924138 11500724 5173256	BRACKET BOLT, M10X1.5X30.0 MM (12.9001) SPACER, 15/32"X13/16"X5/16" (7.1598)		 	2	į	
	4.2291 -	ADAPTOR, OIL FILTER COVER					
2A 2B 2A,B	8920096 8920173 25011151 8927034 8921436 8922327 5145014 5115214	ADAPTOR ADAPTOR (INCLUDES OIL COOLER PAD) ADAPTOR ADAPTOR INSERT, OIL FILTER ADAPTOR PLUG, 1/4" PIPE (12.9550) PLUG, 3/8" PIPE (12.9550) PLUG, 1/2" PIPE (12.9550)	1 4	1 2	1	1 1	
2A,B 2A,B	8920849 8920180	RING, 487" I.D.X.6875" O.D. SEAL RING, 18.82 MM I.D.X3.175 MM THK.		4		4	
2A,B 2A,B 2A,B	8920439 8920440 8920442 11504822 11502811	BOLT, M10X1.5X40.0 MM BOLT, M10X1.5X50.0 MM BOLT, M10X1.5X50.0 MM BOLT, M8X1.25X30.0 MM (12.9001) NUT, M8X1.25 (2.5220) + NOT SERVICED. USE (1) EACH OF 8923365 ADAPTOR AND 5121182 PLUG.	4	2	3 3	2	1 1 1 1 1 1 1 1 1 1
	4.2485	VALVE, OIL FILTER BYPASS					
2C 2C	5120082 5132707	VALVE (4.1700)	1	2		2	
	4.2486	SPRING, OIL FILTER BYPASS VALVE					
2C	8920097	SPRING	1	2		2	
	4.2488	PLUG, OIL FILTER BYPASS VALVE					
2C	5136227 8926995	PLUG (4.1710)		2		2	
	4.2489	GASKET, OIL FILTER BYPASS PLUG					
2C	5177773	GASKET	2	2			
				-	•	•	· ·

4.3000A OIL FILTER LINES

4.3000A OIL FILTER LINES												
PART	1 9 5	1				TY	PES .					
4.3001 - TUBE, OIL FILTER INLET												
8924444 HOSE ASSY., #12X16" CUT L	1 1											
4.3020 - TUBE, OIL FILTER OUTLET	ľ							-			-	
8924438 HOSE ASSY., #12X15" CUT L	1	.										
4.3045 - CLIP, OIL FILTER LINES								1				
2419766 CLIP, 1.06" DIA, (4.8040)	2 1 1											
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4.4000A OIL COOLER AND MARINE GEAR LINES

									TYP	EC					- 4
FIG	PART . NUMBER	NAME AND DESCRIPTION	8	9 8 3	0 0 4	1 0 7 9	1 0 8 1	8	1 0 9 3	1 0 9	1 1 0 0				
	4.4001 -	CORE, OIL COOLER-ENGINE													
3A 3A 3A	8547194 8547577 8547549	CORE ASSY. (4 PLATE) CORE ASSY. (6 PLATE) CORE ASSY. (8 PLATE)	1	1	1	1	1	1	1	1	1				
	4.4030 -	GASKET, OIL COOLER CORE-INNER		<u> </u>										}	
3A	5150155	GASKET	1	1	1	1	1	1	1	1	2	ļ			
	4.4040 -	GASKET, OIL COOLER CORE-OUTER	•												
3A	5102506	GASKET	1	1	1	1	1	1	1	1	1				:
	4.4050 -	HOUSING, OIL COOLER-ENGINE													
3A 3A	8920116 8923181 8927359 8926474 5129499 8923847	HOUSING HOUSING HOUSING AND TUBE ASSY. HOUSING AND TUBE ASSY. SPACER, OIL COOLER ELEMENT PLUG, 1/4" PIPE HEX. SOC. (4.7001)		1	1	1	1	1 1	1 1	1	1 1		:		
3A	8924517 118536 11500776	PLUG, 3/8"-18 PIPE (12.9550)	l	1	'	8		8		'	'				
3A 3A	11500776 11500427 11500721 11505212	BOLT, M8X1.25X65.0 MM (12.9001) BOLT, M8X1.25X75.0 MM (12.9001) BOLT, M8X1.25X95.0 MM (12.9001)	8	8	8		8		8	8	8				
	4.4110	ADAPTOR, OIL COOLER								Ĭ					
	8923180 8920439 11508044 5152148	ADAPTOR		1 2 2 1											
	4.4115	GASKET, OIL COOLER ADAPTOR TO BLOCK									E				
	8920180 8920849	SEAL RING (4.2291)		4											
	4.4140	VALVE, OIL COOLER BYPASS													
	5132707	VALVE (4.1700)		2											
	4.4150	SPRING, OIL COOLER BYPASS VALVE												-	
	8920097	SPRING (4.2486)		2											
	4.4160	PLUG, OIL COOLER BYPASS VALVE													
	5136227	PLUG (4.1710)		2			1							1	\

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4.4000A OIL COOLER AND MARINE GEAR LINES

PART FIG NUMBER	NAME AND DESCRIPTION	8 6 8	9 8 3	1 0 0 4	1 0 7 9	1 0 8 1	1 0 8 3	9		1 0 0		
4.4170	- GASKET, OIL COOLER BYPASS VALVE PLUG											
5177773	GASKET	•	2									
4.4190	- TUBE, OIL COOLER INLET AND OUTLET OIL											
8924445 9402711	CONNECTOR, 3/4" TUBE INLET (12.9415) CONNECTOR, 3/4" TUBE OUTLET (12.9415)		1									
4.4213	- HOSE, OIL COOLER WATER INLET											
3A 8924805 8927948 3A 5118149 8927229 3A 5118149	HOSE, 1" I.D.X4.76" L. HOSE, 1" I.D.X5.94" L. + HOSE, 1" I.D.X6.75" L. HOSE, 1" I.D.X6.75" L. SILICONE + HOSE, 1" I.D.X30" L. (CUT L. 8.50")	1		1		1			1	1		
8927741 3A 8924187 3A 8925037 8924804	(4.1642) HOSE, 1" I.D.X8.50" L. SILICONE ELBOW, 3/4" X 1" (5.2161) ELBOW, 3/4" PIPE CONNECTOR, 3/4" PIPE + STD. LENGTH HOSE; CUT TO LENGTH SHOWN.	1		1	1	1	1	1	1 1	1		
4.4214	- CLAMP, OIL COOLER WATER INLET HOSE											
3A 5104358	CLAMP, 1" HOSE (12.9660)	2		2	2	2	2	2	2	2		ļ
4.4220	- ELBOW, OIL COOLER WATER OUTLET							į				
8927673	ELBOW, 90 DEG.				1		1	1				
4.4240	- HOSE, OIL COOLER WATER OUTLET											
3A 5169721 8927227	+ HOSE, 3/4" I.D.X28" L. (CUT L. 2.26") (4.8001) + HOSE, 7/8" I.D. (CUT L. 2.50") (4.8010) HOSE, 7/8" I.D.X2 1/2" SILICONE + HOSE, 1" I.D.X8 1/2" (4.1642) HOSE, 1" I.D.X9" L. SHIELD, HEAT ELBOW, 3/4"X1" (5.2161) ELBOW, 3/4" PIPE (4.4213) CONNECTOR, 3/4" PIPE (5.1235) + STD. LENGTH HOSE; CUT TO LENGTH SHOWN.	1		1 2 1	1	2	1	1	1	1 1 1		
4.4250	- CLAMP, OIL COOLER WATER OUTLET HOSE											
8926693 3A 5104358	CLAMP, 3/4" HOSE (12.9660) CLAMP, 1" HOSE (12.9660)	4		2	4	4	4	4	2	2		

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PAGE 1.1 OF 4.4000A

4.4000A OIL COOLER AND MARINE GEAR LINES

		4.4000A	OIL COOLER AND MARINE	GEAR L	NES												1
FIG	PART NUMBER	NA	ME AND DESCRIPTION	8 6 8	9 8 3	1 0 0 4	1 0 7 9	1 0 8 1	1 0 8 3	1 0 9 3	ES . 0 9	1 1 0 0					•
	4.4270	- TUBE, OIL C	COOLER WATER OUTLET												1 1		
3A 3A	8926475 8921871 8923414	TUBE, DEV. L.	229.0 MM	1		1		1	1	1							
	4.4290	CLAMP, OIL	COOLER WATER OUTLET				1										
3A	8922198 8927358	CLIP		1			1	1	1				1			1	
3A	8926476 120393	CLIP	6" (12.9190)				1	1	1	1 1							
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4.5000A OIL, FILLER

		4.5000A OIL, FILLER											
FIG ,	PART NUMBER	NAME AND DESCRIPTION	5 5	1 6 3	1 6 4			TYPES	S 			}	
	4.5010	- CAP, OIL FILLER				}	1]]		} }	}	1 1	
		● FOR TYPE 140 USE TYPE 55.■		1									
4B	5108474 8926676	CAPCAP ASSY. (CLOSED BREATHER		1									
	8926833	SYSTEM) CAP ASSY. (OPEN BREATHER SYSTEM)	1	2	2			\ \		}	1	} }	- }
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4.6000A DIPSTICK

		4.6000A	DIPSTICK													
FIG	PART NUMBER	NAM	E AND DESCRIPTION	9 4 6	9 4 7	1 4 0	1 1 4 8		, TYP1	ES .						
	4.6001 -	DIPSTICK]					1
4A,B	8920461		05.0 MM., Y-16.0 MM.,] .				İ					1		}	
4A,B	8920462	DIPSTICK (X-4	Л.) 78.0 ММ., Y-14.5 ММ.,	1				- 1	1 1	- {		İ		.	Ì	ļ
4A,B	8926295	DIPSTICK (X-5	И.)		1		j '				ļ					
4A,B	8927676	DIPSTICK (X-4	И) , ,			1	١.						l	ł		
	9421744		M)	1	1	1					- (- }	1		1	}
		1010TOD 0	NDCTION	ł							- {			ļ	ļ	
		ADAPTOR, D		1	1	1	1				ĺ		- [
4A,B	8926692	ADAPTOR (90	MM. DEV. L.)	'	ļ '		١.							1		
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4.7000A OIL PAN

								TYPE	2					
PART NUMBER	NAME AND DESCRIPTION	6 7 9	7 1 8	7 2 4	7 4 2	7 4 3	7 6 0)					j
4.7001	- PAN, OIL	ĺ												l
8920842 8926981 8924674 8925571 8926080 8925293 8921551 8922784	* PAN PAN PAN PAN PAN PAN PAN PAN RETAINER REINFORCEMENT (I FFT SIDE)	1	1	1	1	1	1						:	
8922785 11504295	REINFORCEMENT (RIGHT SIDE)		i	i i			i							
11504471 8923023 11504466 11505269	WASHER) (12.9001) BOLT, M8X1.25X25.0 MM (12.9001) BOLT, M8 X 1.25 X 30.4 MM (12.9001) BOLT, M8X1.25X35.0 MM (12.9001) BOLT, M8X1.25X35.0 MM (12.9001) * NOT SERVICED, USE 8926981 OIL PAN AND 8928816 CONVERSION KIT.	19	13	13	17	17	13				:			
4.7022	- ADAPTOR, OIL PAN REAR SEAL													
8922787 8920091 8922783	ADAPTOR, REAR SEAL GASKET (1.5010) BOLT, M8X1.25X20.0 MM (12.9001)		1 1 6	1 1 6	1	1	1 1 6							
4.7030	- GASKET, OIL PAN TO BLOCK										- 1	1		
5149728 8920089 8920090 8922786 8925360	GASKET SET GASKET, OIL PAN R.H. GASKET, OIL PAN L.H. SEAL, ISOLATOR * ADAPTOR, OIL PAN SEAL * FOR USE WITH ISOLATED OIL PAN 8922782 AND OLD STYLE FRONT COVER 8922074.	1	1	1	1	1	1					1.5		
4.7080	- PLUG, OIL PAN DRAIN													
3866776 5103186 5103187	PLUG ASSY., 1/2"-20 (MAGNETIC) PLUG, 1/2"-14 PIPE (12.9550) PLUG, 3/4"-14 PIPE (12.9550)	1	1	1	1	1 2	1							
4.7090	- GASKET, OIL PAN DRAIN PLUG													
8922349	WASHER, COPPER	1	1	1	1		1							
	4.7001 8920842 8926981 8924674 8925571 8926080 8925293 8921551 8922784 8922785 115044295 11504466 11505269 4.7022 8922787 8920091 8922783 4.7030 5149728 8920090 8922786 8925360 4.7080 3866776 5103186 5103187	### AND DESCRIPTION ### AND DESCRIPTION ### AND DESCRIPTION ### AND OIL ### AND	## A.7001 - PAN, OIL ## A.7001 - PAN, OIL ## A.7001 - PAN, OIL ## A.7001 - PAN, OIL ## A.7001 - PAN, OIL ## A.7001 - PAN, OIL ## A.7001 - PAN, OIL ## A.7001 - PAN, OIL ## A.7001 - PAN, OIL ## A.7002 - PAN, OIL ## A.7002 - ADAPTOR, OIL PAN TO BLOCK ## A.7002 - PLUG, OIL PAN DRAIN ## A.7003 - PLUG, OIL PAN DRAIN ## A.7003 - PLUG, OIL PAN DRAIN ## A.7004 - PLUG, OIL PAN DRAIN ## A.7005 - GASKET, OIL PAN DRAIN ## A.7006 - GASKET, OIL PAN DRAIN ## A.7007 - GASKET, OIL PAN DRAIN ## A.7008 - PLUG, OIL PAN DRAIN ## A.7009 - GASKET, OIL PAN DRAIN PLUG ## A.7009 - GASKET, OIL PAN DRAIN PLUG ## A.7009 - GASKET, OIL PAN DRAIN PLUG ## A.7009 - GASKET, OIL PAN DRAIN PLUG ## A.7009 - GASKET, OIL PAN DRAIN PLUG ## A.7009 - GASKET, OIL PAN DRAIN PLUG ## A.7009 - GASKET, OIL PAN DRAIN PLUG ## A.7009 - GASKET, OIL PAN DRAIN PLUG ## A.7009 - GASKET, OIL PAN DRAIN PLUG ## A.7009 - GASKET, OIL PAN DRAIN PLUG ## A.7009 - GASKET, OIL PAN DRAIN PLUG ## A.7009 - GASKET, OIL PAN DRAIN PLUG ## A.7009 - GASKET, OIL PAN DRAIN PLUG	### A.7001 - PAN, OIL ### A.7001 - PAN, OIL ### B.20842 * PAN ### PAN ### B.20842 * PAN ### B.20841 PAN ### PAN ### B.20841 PAN ### B.20841 PAN ### B.20841 PAN ### B.20840	NUMBER NAME AND DESCRIPTION 7 2 4 4 4 7001 PAN, OIL	NUMBER NAME AND DESCRIPTION 7	NUMBER	PART NUMBER. NAME AND DESCRIPTION 7 1 4 4 4 3 6 4.7001 - PAN, OIL 8920842 * PAN 8926981 PAN 8926981 PAN 8922697 PAN 8922697 PAN 8922571 PAN 8922571 PAN 8922593 PAN 8922593 PAN 89221551 RETAINER 8922784 REINFORCEMENT (RIGHT SIDE) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PART NUMBER NAME AND DESCRIPTION 7 7 7 7 7 4 7 7 4 7 7 9 1 4 4 4 3 6 0 4.7001 - PAN, OIL 8920842 * PAN 8924674 PAN 8924674 PAN 8925571 PAN 8926881 PAN 89255571 PAN 8925293 PAN 89225293 PAN 8921551 RETAINER 8922784 REINFORCEMENT (LEFT SIDE) 8922785 REINFORCEMENT (RIGHT SIDE) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NUMBER	PART NUMBER NUMBER NAME AND DESCRIPTION 4.7001 - PAN, OIL 8920842 * PAN 8926981 PAN 8924674 PAN 8924674 PAN 8925571 PAN 8925571 PAN 8922785 REINFORCEMENT (LEFT SIDE) 8922785 REINFORCEMENT (RIGHT SIDE) 8922786 REINFORCEMENT (RIGHT SIDE) 11504295 BOLT, MB X 1.25 X 20.0 MM (W.SPR. WASHER) (12.9001) 11504295 BOLT, MB X 1.25 X 30.4 MM (12.9001) 11504471 BOLT, MBX 1.25X 30.4 MM (12.9001) 11504471 BOLT, MBX 1.25X 30.4 MM (12.9001) 11505269 BOLT, MBX 1.25X 30.4 MM (12.9001) 11504466 BOLT, MBX 1.25X 30.4 MM (12.9001) 11504466 BOLT, MBX 1.25X 30.4 MM (12.9001) 11504466 BOLT, MBX 1.25X 30.4 MM (12.9001) 11504466 BOLT, MBX 1.25X 30.4 MM (12.9001) 11504466 BOLT, MBX 1.25X 30.4 MM (12.9001) 11504466 BOLT, MBX 1.25X 30.4 MM (12.9001) 11504466 BOLT, MBX 1.25X 30.4 MM (12.9001) 11504466 BOLT, MBX 1.25X 30.4 MM (12.9001) 1150466 BOLT, MBX 1.25X 30.4 MM (12.9001) 11504466 BOLT, MBX 1.25X 30.4 MM (12.9001) 11504466 BOLT, MBX 1.25X 30.4 MM (12.9001) 11504466 BOLT, MBX 1.25X 30.4 MM (12.9001) 11504466 BOLT, MBX 1.25X 3	PART NUMBER NAME AND DESCRIPTION 6 7 7 7 7 7 7 7 7 7	PART NUMBER	PART NUMBER. NAME AND DESCRIPTION 7 7 7 4 4 7 7 9 1 4 4 4 3 6 0 4.7001 - PAN, OIL 8920842 * PAN 8924674 PAN 8924674 PAN 8925571 PAN 8926080 PAN 8925293 PAN 8921551 RETAINER 8922785 BICLT, MRX 1.25 X 20.0 MM (W/SPR. WASHER) (12.9001) 19 11504471 BOILT, MRX 1.25 X 20.0 MM (12.9001) 19 8922083 BOILT, MR X 1.25 X 20.0 MM (12.9001) 11504471 11504

4.8000A VENTILATING SYSTEM

		4.BOOOA VENTILATING STOTEM												
FIG	PART NUMBER	NAME AND DESCRIPTION	7 7 8	8 0 7	8 0 8	8 1 9	8 2 6	8 4 6	8 4 7	8 4 8	8 5 1			
	4.8001 -	PIPE ASSY., BREATHER												
6A 6A 6A	8920719 8923213 5118149 5186840	HOSE, 25.4 MM I.D. HOSE, 24.4 MM I.D. HOSE, 1" I.D. X 2.50" CUT L. (4.1642) CLAMP (13/16"-1 1/2" DIA.) (12.9660)	İ	2		1 2	1							
	4.8002 -	SEAL, BREATHER PIPE												
	8920413 +	SEAL (UPPER)+ OBSOLETE.	1											1
	4.8003 -	REGULATOR, BREATHER PIPE										1		ļ I
6A	8996964 * 11500714	REGULATOR BOLT, M8 X 1.25 X 20.0 MM (12.9001) * NOT SERVICED, USE 8922983.	1 2				i.							
	4.8010 -	EXTENSION, BREATHER TUBE												
6A 6A 6A	8922796 8924370 8923212 8926682 8926684 8927922 8927923 8924749 8926680	TUBE, 40" L. FLEX TUBE, 12" L. FLEX TUBE, 30.77" DEV. L. TUBE, DEV. L. 34 1.6 MM (R. BANK) TUBE, DEV. L. 331.2 MM (R. BANK) TUBE, DEV. L. 1099.0 MM (OUTLET) TUBE, DEV. L. 655.5 MM (OUTLET) TUBE, DEV. L. 576.1 MM (OUTLET) PLUG, 1/8" PIPE (12.9550) TEE * INSTALLED IN CENTER OF EACH CYLINDER HEAD FOR TURBO APPLICATIONS EXCLUDING MARINE ENGINES.		1	1	1	1	1 1 1 2 1		1 1	1 1 1			
	4.8013 -	ELBOW, BREATHER												
	8926679 8926678 8926677	ELBOW				ļ		2	2 2	2	2			
	4.8040 -	CLIP, BREATHER TUBE												
6A 6A 6A	5151189 2419766 5169476 8923214 515702 8926681 5144977 5173022 8922228 11500714 11504505 120393 106261 103341 11502811 11501066 5101020	CLIP, 3/4" CLIP, 1" (NEOPRENE) CLIP, 1" (5.2190) CLIP, 1"	1		1	1	2	1 1 2 2 2 1		1 1 1	1			

4.8000A VENTUATING SYSTEM

		4.8000A	VENTILATING SYST	EM												
, ,FIG .	PART NUMBER	NAM	E AND DESCRIPTION		7 7 8	8 0 7	8	8 1 9	8 2 6	8 4 6	TYP 8 4 7	8 4 8	8 5 1			
	4.8046	- INSTALLTION	KIT, BREATHER													H
	8922983		R SYSTEM REWORK		1	1	1									
	4.8055	- SHELL, BREA	THER					İ								
6A 6A 6A	8920731 8921279 8920 7 20	BOLT, 5/16"-1	8 X 5"		1 1	1 1	1 1 1	1 1 1	1 1 1 1							
	4.8059	SEAL, BREAT	HER SHELL													
6A	8921294				1	1	1	1	1							
	4.8060	FILTER UNIT,	BREATHER													
6A	8920712	ELEMENT	• • • • • • • • • • • • • • • • • • • •		1	1	1	1	1					1		
	4.8183	BRACKET, BE	REATHER EXTENSION	N PIPE											ŀ	
	5176400 11504505	BRACKET (4.80 BOLT, M8X1.2	010)					1 1								
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GROUP NOMENCLATURE

1.0000	ENGINE (less major assemblies)	5.0000	COOLING SYSTEM (CONT'D)
1.1000	Cylinder Block	5.4000B	Fan Shroud
1.1000A	Air Box Drains	5.5000A	Heat Exchanger or Keel Cooling
1.2000	Cylinder Head	5.6000A	Raw Water Pump
1.2000A	Engine Lifter Bracket	5.7000A	Water Filter
1.3000	Crankshaft, Oil Seals and Stabilizers		
1.3000A	Crankshaft Front Cover	6.0000	EXHAUST SYSTEM
1.30008	Vibration Damper	6.1000A	Exhaust Manifold and/or Connections
1.3000C	Crankshaft Pulley	6.2000A	Exhaust Muffler and/or Connections
1.3000D	Crankshaft Pulley Belt		
1.4000A	Flywheel	7.0000	ELECTRICAL-INSTRUMENTS
1.5000A	Flywheel Housing	7.1000A	Battery Charging Generator
1.5000B	Flywheel Housing Adaptor	7.2000A	Battery Cables
1.6000	Connecting Rod and Piston	7.2000B	Automatic Starting
1.7000	Camshaft and Gear Train	7.200 0 B	Automatic Starting (Twin and Quad)
1.7000A	Balance Weight Cover	7.3000A	Starting Motor
1.7000B	Accessory Drive	7.4000A	Instruments
1.8000	Valve and Injector Operating Mechanism	7.4000A	Instruments (Twin and Quad)
1.8000A	Rocker Cover	7.4000B	Tachometer Drive
		7.4000B	Tachometer Drive (Twin and Quad)
2.0000	FUEL SYSTEM	7.4000C	Shutoff, Alarm and O.S. Governor
2.1000A	Fuel Injector	7.4000C	Shutoff, Alarm and O.S. Governor (Twin and Quad)
2.2000	Fuel Pump	7.5000A	Power Generator
2.2000A	Fuel Pump Drain	7.6000A	Control Cabinet
2.3000A	Fuel Filter and Strainer	7.6000A	Control Cabinet (Twin and Quad)
2.3000A	Fuel Filter and Strainer (Twin and Quad)	7.7000A	Wiring Harness
2.4000 2.4000A	Fuel Manifold and/or Connections	7.8000A	Air Heater Air Heater (Twin and Quad)
2.5000A	Dual Fuel System	7.8000A	
2.5000A 2.5000A	Fuel Lines and Fuel Cooler	7.10000A	Hydraunc Governor Sciencia
2.6000A	Fuel Lines and Fuel Cooler (Twin and Quad) Fuel Tank	8.0000	POWER TAKE-OFF
2.6000A	Electric Governor	8.1000A	Power Take-off and/or Clutch
2.7000A	Mechanical Governor	8.1000A	Power Take-off and/or Clutch (Twin and Quad)
2.8000A	Hydraulic Governor	8.3000A	Torque Converter
2.9000	Injector Controls	8.3000A	Torque Converter (Twin and Quad)
2.9000	Injector Controls (Twin and Quad)	8.3000A	Transmission Lines
2.9000A	Throttle Controls	0.50005	FIGHTSHIPSTON WITHOUT
2.9000A	Throttle Controls (Twin and Quad)	9.0000	TRANSMISSION AND PROPULSION
2.5000	Throttle Controls (1 Will and Quad)	9.1000A	Hydraulic Marine Gear
3.0000	AIR SYSTEM	9.1000A	Hydraulic Marine Gear (Twin and Quad)
3.1000A	Air Cleaner and/or Adaptor	9.2000A	Reverse and Reduction Gear (mechanical)
3.2000A	Air Silencer	9.3000A	Power Transfer Gear
3.3000A	Air Inlet Housing	9.3000A	Power Transfer Gear (Twin and Quad)
3,4000	Blower and Drive	9.4000	Transmission—Highway
3.4000A	Blower Drive Shaft	9.7000	Transmission—Off-highway
3.4000B	Blower End Plate Cover	9.9000	Transmission—Rail Car
3.5000A	Turbocharger, Intercooler, and Aftercooler	0.000	
0.0000.1		10.0000	SHEET METAL
4.0000	LUBRICATING SYSTEM	10.1000A	Engine Hood
4.1000A	Oil Pump		·
4.1000B	Oil Distribution System	11.0000	ENGINE MOUNTING
4.1000C	Oil Pressure Regulator	11.1000A	Engine Mounting and Base
4.2000A	Oil Filter	11.1000A	Engine Mounting and Base (Twin and Quad)
4.3000A	Oil Filter Lines		
4.4000A	Oil Cooler and Marine Gear Lines	12.0000	MISCELLANEOUS
4.5000A	Oil Filler	12.2000A	Bilge Pump
4.6000A	Dipstick	12.3000A	Vacuum Pump
4.7000A	Oil Pan	12.4000A	Air Compressor
4.8000A	Ventilating System	12.5000A	Hydraulic Pump
		12.6000A	Gasoline Starter
5.0000	COOLING SYSTEM	12.6000B	Air Starter
5.1000	Fresh Water Pump	12.6000C	Cold Weather Starting Aid
5.1000A	Fresh Water Pump Cover	12.6000D	Hydraulic Starter
5.2000A	Water Outlet Manifold and/or Elbow	12.6000E	Hydraulic Starter Accessories
5.2000B	Thermostat	12.8000A	Supplies
5.2000C	Water Bypass Tube	12.8000B	Fabrication Material
5.3000A	Radiator	12.8000C	Miscellaneous Service Kits and Sets
5.3000B	Water Connections	12.8000D	Miscellaneous Service Parts
5.4000A	Fan		

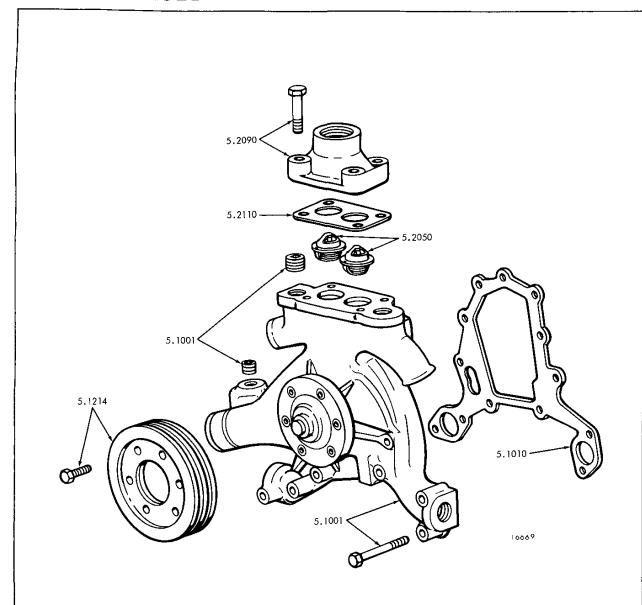
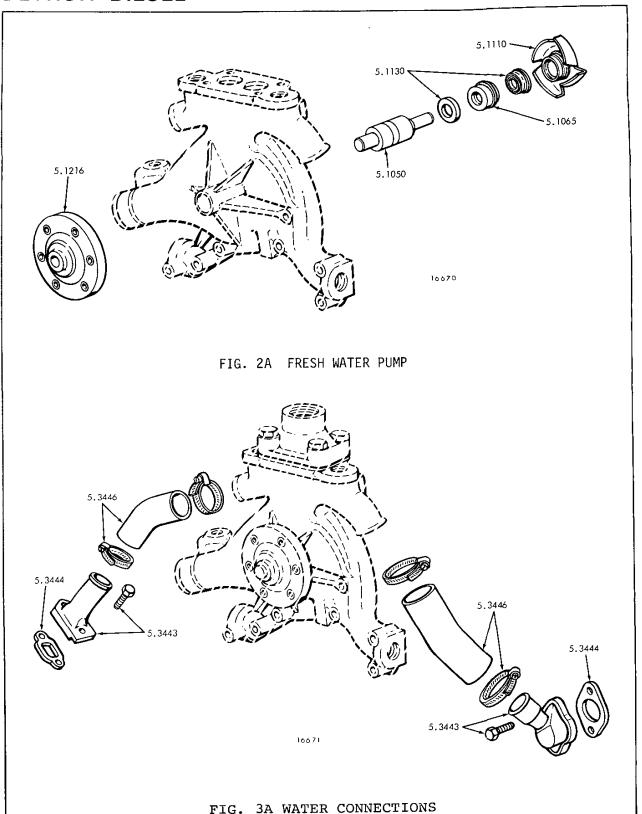


FIG. 1A FRESH WATER PUMP ASSEMBLY, PULLEY AND THERMOSTATS



Figs. 2A & 3A of 5.0000

Oct., 1979

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5.1000 FRESH WATER PUMP

	PART		 1 2	 1	2		2	 I	. TYP	ES .	 2	 1	 2	 I I	
FIG .	NUMBER	NAME AND DESCRIPTION	0	2 1 2	9	2 3 0	3	2 3 4	3	2 3 6	3	2 4 0	6	2 4 7	
	5.1001	PUMP ASSY., FRESH WATER													
		SEE ASSEMBLY BREAKDOWN PAGE A1.						'					•	} }	1
1A 1A	8922302 8920151	* PUMP ASSY. PUMP ASSY. * PUMP ASSY. + PUMP ASSY PUMP ASSY PUMP ASSY.	1	1	1 1	1	1	1	1	1	1	1			
1A 1A 1A 1A	8927158 8924140 5115214 5103187 8923313 11500714 8922228 8922229 8922230 8926242	PUMP ASSY. DRAINCOCK, 1/4" (12.9510) PLUG, 1/2" PIPE SQ. SOC. (12.9550) PLUG, 3/4"-14 PIPE (12.9550) PLUG, 3/4"-14 PIPE (12.9550) BOLT, M8 X 1.25 X 20.0 MM (12.9001) BOLT, M10X1.50X25 MM (12.9001) BOLT, M10X1.50X50.0 MM (12.9001) BOLT, M10X1.50X70.0 MM (12.9001) BOLT, M10X1.50X70.0 MM (12.9001) BOLT, M10X1.50X100.0 MM (12.9001) * NOT SERVICED, USE 8922302. + NOT SERVICED, USE 8924831.	5 3 5	5 35	1 5 3 5	1 5 3 5	5 3 5	1 5 3 5	5 3 5	1 5 3 5	2 2 4	2 4 2	1 1 1 5 3 5	1 1 5 3 5	
	5.1002 -	RECONDITIONING KIT, FRESH WATER PUMP													
		A RECONDITIONING KIT INCLUDES SHAFT AND BEARING ASSY. IN 5.1050, SEAL ASSY. IN 5.1065, IMPELLER IN 5.1110, SEAT AND SEAL IN 5.1130 AND HUB IN 5.1216.			:										
	8924376 8924784	KIT, RECONDITIONING (8V)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	
	5.1010	GASKET, FRESH WATER PUMP										İ			
1A	8922132 8923207	GASKET (W/P TO COVER)	1	1	1	1	1	1	1	1	2	2	1	1	
	5.1214 -	PULLEY, FRESH WATER PUMP													1 1
1A	8920115	PULLEY, 3 GROOVES, .500" WIDE	1		1				1	1		1	1	1	
											ĺ				
			ļ												

5.1000 FRESH WATER PUMP

FIG	PART NUMBER	NAME AND DESCRIPTION	2 4 8	2 4 9	2 5 0	2 5 4	2 5 5	2 5 6	7 TYPE	2 5 8	2 5 9	2 6 0	2 6 1			(
	5.1001 -	PUMP ASSY., FRESH WATER	ļ												1	
		SEE ASSEMBLY BREAKDOWN PAGE A1.													Į	
1A 1A 1A	8927158 8927515 8927680 8927728 8927729	PUMP ASSY. PUMP ASSY. MARINE PUMP ASSY. PUMP ASSY. PUMP ASSY. PUMP ASSY. PUMP ASSY.		1	1	1	1	1	1	1	1	1			:	
1A 1A	8928672 8928688 5115214 5103187 5142549 8924140 11500714	PUMP ASSY. PLUG, 1/2" PIPE SQ. SOC. (12.9550) PLUG, 3/4"-14 PIPE (12.9550) PLUG, 3/4" PIPE SQ. SOC. (12.9550) DRAINCOCK, 1/4" (12.9510) BOLT M8X1 25X20 0 MM (12.9001)	5	1 5 3	1 5 3	2		2		1 5 3	5 3	1 5 3	1			
1A 1A	8922229 8922230 11500887	BOLT, M10X1.50X50.0 MM (12.9001)	5	5	5	4	4 2	4	4 2	5	5	5	2			
	5.1002 -	RECONDITIONING KIT, FRESH WATER PUMP														
		A RECONDITIONING KIT INCLUDES SHAFT AND BEARING ASSY. IN 5.1050, SEAL ASSY. IN 5.1065, IMPELLER IN 5.1110, SEAT AND SEAL IN 5.1130 AND HUB IN 5.1216.														
	8924376 8924784 8928670	KIT, RECONDITIONING (8V) KIT, RECONDITIONING (8V MARINE) KIT, RECONDITIONING (8V; UNITIZED SEAL)	1	AR	AR	AR	AR		AR	AR	AR	AR	AR			
	8928671	KIT, RECONDITIONING (8V MARINE; UNITIZED SEAL)						AR					: 			
	5.1010 -	GASKET, FRESH WATER PUMP					1		Ì							
1A	8922132 8923207	GASKET (W/P TO COVER) GASKET (W/P TO COVER)	1	1	1	2	2	2	2	1	1	1	2			
	5.1214 -	PULLEY, FRESH WATER PUMP	1	}	1		1		}	Ì	}		l		}	1
1A 1A	8920115 11500714	PULLEY, 3 GROOVES, .500" WIDE		6			6		1 6	1 6		6	6			
		•														
												1				ļ

5.1000 FRESH WATER PUMP

									COL	IMN						
FIG .	PART	NAME AND DESCRIPTION	A		C		Е		G		i i	, . 	K		M	
				В		D		F	, ,	н	l	J		L		
	5.1001	PUMP ASSY., FRESH WATER														,
1A 1A 1A	8922302 8920151 8923149 8924831 8924599 8927158 8927515	* PUMP ASSY. PUMP ASSY. * PUMP ASSY. * PUMP ASSY., MARINE PUMP ASSY., MARINE PUMP ASSY. PUMP ASSY. PUMP ASSY. PUMP ASSY.	1	1	1	1 1	1	1	1	1	1					
1A 1A	8927728 (8927729 (8928672 8928688 (8924380 444619	 PUMP ASSY. PUMP ASSY., MARINE PUMP ASSY. PUMP ASSY. PUMP ASSY. PUMP ASSY. PUMP ASSY. PUMP ASSY. PLUG, 1/8" PIPE W/SEAL (12.9550). PLUG, 1/4" PIPE (2.4015). PLUG, 1/4" PIPE SQ. SOC. (4.7001). PLUG, 3/8" PIPE W/SEALANT (12.9550). PLUG, 1/2" PIPE (12.9550). PLUG, 1/2" PIPE (12.9550). PLUG, 3/4" PIPE (12.9550). PLUG, 3/4" PIPE (12.9550). PLUG, 3/4" PIPE SQ. SOC. (12.9550). PLUG, 3/4" PIPE SQ. SOC. (12.9550). * NOT SERVICED. SHOWN FOR REFERENCE ONLY. + EARLY UNITS. © REFER TO THERMOSTAT TYPE FOR COVER, THERMOSTAT, GASKET, BOLTS AND PLUGS. 	1 4 4	1 1 4	4	2	2	1 2 1 4	1 4	2	1 1 2 1 4	1 2 2	1 2 1 4	1 4 4	1 2 1 4	
	5.1031 - 8923151 8923144	COVER, FRESH WATER PUMP BODY COVER RING, RETAINING (12.9645)		i i		1 1	1	1		1	1 1	1	1 1		1	
	5.1032	GASKET, FRESH WATER PUMP BODY COVER		i		i									ļ ,	
	8923152	SEAL		 		1	1	1		1	1	1	1		1	
	5.1050	SHAFT ASSY., FRESH WATER PUMP														
2A	8920144	SHAFT AND BEARING ASSY	1	1	1	1	1	1	1	1	1	1	1	1	1	
	5.1065	SEAL, FRESH WATER PUMP SHAFT BEARING			İ						, ,			, ,		
2A	9799107 8927408	SEAL SEAL ASSY. (CERAMIC)	1	1 1	1	1	. 1	1	1	1	. 1	1	1	1	1	
	5.1110	IMPELLER, FRESH WATER PUMP		İ						,			. }			
2A	8920104 8927727	IMPELLER IMPELLER	1	1	1	1	1	1	1	1	1	1	1	1	1	
		i														

		5.1000	FRESH WATER	PUMP														_
FIG .	PART	NA	ME AND DESCRIP	TION	A		C		E		OLU G		ij		K		vi [
						в		D		F		н		J	'	- \	}	
	5.1130 -	SEAL, FRES	H WATER PUN	IP						- {	1		1	- {	Ì		}	
2A 2A	8920389 487617	SEAL (FRONT SEAT, SEAL			1	1	1	1	1	1	1 1	1	1					
	5.1214 -	PULLEY, FR	ESH WATER P	UMP	}						Ì	ļ						
	8923153	PULLEY, 2 G MM DIA.	ROOVE .500" WIE	DE, 178.0				1	1			1		1				
	5.1216 -	HUB, FRESI PULLEY	H WATER PUM	P DRIVEN						•		} 						
2A	8922299	HUB			1	1	1		•	1	1		1		1	1	1	
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5.2000B THERMOSTAT

		5.2000B THERMUSTAT													
FIG .	PART NUMBER	NAME AND DESCRIPTION		9 2	3 1 5	3 1 8	3 2 9	3 0	3 4 0	3 4	3 4 2				
	5.2050	- THERMOSTAT ASSY.													
1A	3046745	THERMOSTAT (180 F. DEG. OR 82 C.		ĺ										Ì	
1A	3051089	DEG. OPENING)		2								1	1 1	}	
1A	3054224	DEG. OPENING)	ļ		2						}		1 i		1 1
1A	3058608	DEG. OPENING)	- 1	}		2							} }		} }
1A	3058607	DEG. OPENING; FULL BLOCKING) THERMOSTAT (170 F. OR 77C. DEG. OPENING; FULL BLOCKING)			į		2	2	2						
	5.2090	- HOUSING, THERMOSTAT													
1A	8920152 8924824	COVER		1	1	 1		1	1				}		}
	8924814 8926314	COVER HOUSING ASSY. (INCLUDES ITEMS					1								
	8926316	MARKED +) + SEAL RING, .796" I.D.X.240" THK								1 2	1 2		1 1		} }
	8924380	+ PIN, JIGGLE	[1	1	1	1		1		
	5121182 8923847	PLUG, 1/4" PIPE HEX. SOC. (2.4015) PLUG, 1/4" PIPE SQ. SOC. (4.7001)	}		2	2		1	1			-		- }	\ \
	5103186	+ PLUG, 3/8" PIPE SQ. SOC. (12.9550) + PLUG, 1/2" PIPE HEX. SOC. (12.9550)	[2 1 1	1				
	5142549	* PLUG, 1/2" PIPE SQ. SOC. (12.9550)	【								1 1 1	-	{		
1A 1A	5142549 8922229 11500785	@ PLUG, 3/4" PIPE SQ. SOC. (12.9550) BOLT, M10X1.5X50.0 MM (12.9001) BOLT, M10X1.5X80.0 MM (12.9001)		4	2	2	4	2	2						
1A	11500786 8926396	BOLT, M10X1.5X90.0 MM (12.9001) BOLT, M10X1.50X160 MM (12.9001)	[2	2		2	2	4		-	{	-	
	8926397 8926398	BOLT, M10X1.50X190 MM (12.9001) BOLT, M10X1.50X200 MM (12.9001) * TOP LEFT OF PUMP. @ TOP RIGHT OF PUMP.							<u> </u> 	:	2 2				
	5.2110	- GASKET, THERMOSTAT HOUSING													
1A	8924813	GASKET	· · · ·	1	1	1	1	1	1	2	2				
			}										1 1	}	
]				Ì						i i)	} }
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5.3000B WATER CONNECTIONS

								TYF	PES .						· : 4
PART FIG NUMBER	NAME AND DESCRIPTION	3 6 1	383	3 8 8	3 8 9	3 9 3	4 0 2	4 0 3	4 0 4						
5.3269 -	TUBE, TURBOCHARGER WATER RETURN												-		}
8923494	TUBE, STBD. 25.4 MM DIA. X 833.0 MM			1									l		1
8923501	TUBE, PORT 25.4 MM DIA. X 428.0 MM DEV. L.	1			1				1	·	· .			1	1
8923503	TUBE, 25.4 MM DIA. X 432.0 MM DEV.			,	1]	ļ) !	,)		1
8924673 8924140 5186840 5144149 11500724 = 5173256 =	HOSE, BULK 1"X2 1/2" CUT L. (4.1642) ELBOW, 90 DEG. (12.9590) DRAINCOCK, 1/4" (12.9510) CLAMP, HOSE 1" (12.9660) CLIP, TUBE 1" (4.8040) BOLT, M10 X 1.5 X 30.0 MM (12.9001) SPACER, 15/32"X13/16"X5/16" (7.1598)			2 1 1 6 2 2 2 2 2	2 1 1 6 2 2 2 2 2	 		i							
11502811 +	NUT, M8X 1.25 (2.5220)				-					ļ	i				
5.3295 -	HOSE, HEAT EXCHANGER FRESH WATER INLET														
8924386	HOSE, 90 DEG. BEND			1	1										ļ
5.3305 -	CLAMP, HEAT EXCHANGER FRESH WATER INLET HOSE														
5102013	CLAMP, HOSE 2 1/2" (12.9660)			2	2										(
5.3334 -	HOSE, HEAT EXCHANGER OUTLET CONNECTION TO WATER PUMP														
8923143 5102013	HOSE, 90 DEG. BEND			1 2	1 2	ļ									
5.3350 -	CONNECTION, OIL COOLER WATER INLET														
5127041	CONNECTOR, 25 DEG. 3/4" NPT (5.1235)			2	2										
5.3365 -	HOSE, OIL COOLER WATER INLET CONNECTION	į		ļ											
5118149	HOSE, 1" I.D. X 30" L. (CUT L. 5.75")	ŀ		1	1			ł							
5.3366 -	CLAMP, OIL COOLER WATER INLET CONNECTION														
5186840	CLAMP, HOSE 1" (12.9660)			2	2										
5.3422 -	HOSE, OIL COOLER WATER OUTLET									1					-
8923148 5144702 5186840	HOSE, 22.0 MM I.D. CONNECTOR, 3/4" PIPE (5.2165) CLAMP, HOSE 1" (12.9660)	1		1 2 2			İ								

5.3000B WATER CONNECTIONS

									TYF	DEC					
FIG .	PART NUMBER	NAME AND DESCRIPTION	3 6 1	3 8 3	3 8 8	3 8 9	3 9 3	4 0 2	4 0 3	4 0 4					
	5.3430	CONNECTOR, EXHAUST MANIFOLD FRESH WATER INLET							ļ						
	5144702	CONNECTOR, 3/4" PIPE (5.2165)			4	4									
	5.3432	HOSE, EXHAUST MANIFOLD FRESH WATER INLET													
	5169721	HOSE, 7/8" I.D. X 24" L. (CUT L. 1.74")		l											
	8923147	(4.8010) HOSE, 22.0 MM I.D.			1	1								ļ	
	5.3433	TUBE, EXHAUST MANIFOLD FRESH WATER INLET	<u> </u> -												
	8923142	TUBE, 22.22 MM DIA. X 251.7 DEV. L			1	1									
	5.3434	CLAMP, EXHAUST MANIFOLD FRESH WATER INLET HOSE													
	5186840	CLAMP, HOSE 1" (12.9660)			6	4									
	5.3443	ELBOW, CYLINDER HEAD FRESH WATER OUTLET													
3A 3A 3A 3A 3A	8923414 8923072 8923141 8924812 8927699 11500718	ELBOW (LB) * ELBOW (RB) ELBOW (RB) ELBOW (RB) ELBOW (LB) ELBOW (LB) ELBOW (RB) BOLT, M8X1.25X25.0 MM (12.9001) BOLT, M8X1.25X30.0 MM (12.9001) BOLT, M8X1.25X45.0 MM (12.9001) BOLT, M8X1.25X50.0 MM (12.9001) BOLT, M8X1.25X50.0 MM (12.9001) BOLT, M8X1.25X50.0 MM (12.9001) PLUG, PIPE 1/8" (12.9550) PLUG, PIPE 1/8" (12.9550) PLUG, PIPE 3/4" (12.9550) PLUG, 3/4" PIPE (12.9550) + USE WITH 8923414 ELBOW. * NOT SERVICED. USE 8923414 ELBOW AND (1) 11500716 BOLT.	2 1 2	2 1 2	1 1 1 1	4	1 1 4	1 2 2	1 1 2 1	1 2 2					
	5.3444 -	GASKET, ELBOW FRESH WATER OUTLET								,					
3A 3A	8920161 8920083	GASKET (LB) (RB)	1	1	2	2	2	1	1	1 1					
	5.3446 -	HOSE, FRESH WATER OUTLET		j											
3A	8922569	HOSE (ELBOW TO HSG.) (LB)	1	1				1							
3A	8927228 8921097 8927226 5199776	HOSE (ELBOW TO HSG., SILICONE) (LB) HOSE (35 MM I.D.) (RB) HOSE (35 MM I.D., SILICONE) (RB) HOSE, 1 3/4" I.D. X 24" L. (CUT L.	1	1				1	1	1					
3A	5104958	3.26") (5.3295)	4	4	2	2	2	4	4	4					
						ı		ı		1	1	I	1 1	I	I

5 3000B WATER CONNECTIONS

FIG NUMBER	!	5.3000B	WATER CONNEC	TIONS												_
(CONT'D) 8920537 CLAMP, 1 9/16"-2 1/2" CLAMPING RANGE (12.9660)	PART FIG NUMBER	NAM	IE AND DESCRIPTIO	N	6	8	8	8	9	4 0	4	40				
RANGE (12.9660) 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		•	WATER OUTLET	-							ļ					
	•	AMP, 1 9/1					4	4	4							
					 - 											
															:	
													i			
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5.4000A FAN

	
PART	/PES
6 7 2	
5.4010 - BLADE, FAN	
NPN BLADE (CUSTOMER FURNISHED) 1 8922706 BLADE, 22.28"-5 BLADE SUCTION 1 8922707 BLADE, 22.28"-5 BLADE BLOWER 1 11500800 BOLT, M8X1.25X100 MM (12.9001) 6 6 6 6 11500191 LOCKWASHER, M8 (12.9200) 6 6 6 6 6	
5.4011 - SPACER, FAN BLADE	
8921615 SPACER, 68.0 MM	

5.5000A HEAT EXCHANGER OR KEEL COOLING

			TVDEČ	
PART .FIG NUMBER	NAME AND DESCRIPTION	9 5	•	
5.5001	TANK, EXPANSION			
8923146 8925832 11500731	TANK PLUG, 3/8" ZINC BOLT, M12X1.75X30.0 MM (12.9001)			
5.5030 -	COVER, HEAT EXCHANGER			
8925835 8925833	COVER WASHER, FIBER			
5.5050 -	GASKET, HEAT EXCHANGER COVER			
8925834	GASKET	1		
5.5070 -	BRACKET, HEAT EXCHANGER MOUNTING		111111	
8923136 8923137 11500724 11500730 11500192	BRACKET, L.H. BRACKET, R.H. BOLT, M10X1.50X30.0 MM (12.9001) BOLT, M10X1.50X110.0 MM (12.9001) LOCKWASHER, M10 (12.9200)	1 1 2 2 4		
5.5140 -	CAP, EXPANSION TANK			
6410640	CAP, 15 LB. PRESSURE	1		
5.5335 -	TUBE, HEAT EXCHANGER DEARATION			
8924369 442321	TUBE, 6.35 MM I.D.X136.0 DEV. L	1		1
8925032	ELBOW, 90 DEG., 1/4" TUBE 1/8" NPTF (12.9480)			
5.5470 -	HOSE, HEAT EXCHANGER RAW WATER INLET TUBE			
8924714 5130652	HOSE, 32.0 MM X307.0 MM L			
5.5480 -	CLAMP, HEAT EXCHANGER RAW WATER INLET TUBE HOSE			
5104958	CLAMP, 1 1/4" HOSE (12.9660)	2	<u>'</u>	
		į		

5.6000A RAW WATER PUMP

5.6000A RAW WATER PUMP	
PARTFIG NUMBERNAME AND DESCRIPTION	TYPES
5.6001 - PUMP ASSY., RAW WATER	
SEE ASSEMBLY BREAKDOWN PAGE A1.	
8924483 PUMP ASSY, (INCLUDES PULLEY IN	
5.6400) 8922228 BOLT, M10X1.5X25.0 MM (12.9001) 11500192 LOCKWASHER, M10 (12.9200) 11501052 NUT, M10X1.5 (12.9120)	
5.6025 - RECONDITIONING KIT, RAW WATER PUMP	
A RECONDITIONING KIT INCLUDES WEARPLATE IN 5.6030 AND ITEMS IN 5.6035, 5.6030, 5.6120, 5.6130, 5.6140, 5.6160, 5.6170, 5.6230 AND KEY IN 5.6400.	
8927616 RECONDITIONING KIT	
5.6220 - REPLACEMENT KIT, RAW WATER PUMP SEAL AND IMPELLER	
A REPLACEMENT KIT INCLUDES ITEMS IN 5.6100, 5.6170 AND 5.6230.	
8927617 REPLACEMENT KIT	
5.6380 - BRACKET, RAW WATER PUMP MOUNTING	
8923083 BRACKET	
8922228 BOLT, M10X1.5X25.0 MM (12.9001)	
5.6425 - BELT, RAW WATER PUMP DRIVE	
5133515 BELT, .500" W.X37.0" L. (PREMIUM) (7.1575)	

5.6000A RAW WATER PUMP

PART NUMBER	NAME AND DESCRIPTION	A	
5.6001 -	PUMP ASSY., RAW WATER		
8924483	PUMP ASSY. (INCLUDES PULLEY)	1	
5.6030 -	BODY, RAW WATER PUMP		
8927521 5195753	BODY	1	
5.6035 -	CAM, RAW WATER PUMP BODY OFFSET		
8927519 8927520	CAM (BRASS) SCREW	1 1	
5.6090 -	COVER, RAW WATER PUMP		
8927516 8927518	COVER	1 6	
5.6100 -	GASKET, RAW WATER PUMP COVER		
8927517	GASKET	1	
5.6120 -	SHAFT, RAW WATER PUMP		
5199151	SHAFT	1	
5.6130 -	BEARING, RAW WATER PUMP		
8927522	BEARING	1	
5.6140 -	RING, RAW WATER PUMP BEARING RETAINER		
8927523 8927524	RING, RETAINING (BEARING TO BODY)	1 1	
5.6160 -	SEAL, RAW WATER PUMP BEARING		
5195019 8927525	SEAL (INNER)	1 1	
5.6170 -	SEAL, RAW WATER PUMP SHAFT		
8927526	SEAL	1	
5.6230 -	IMPELLER, RAW WATER PUMP		
5193602	IMPELLER	1	
5.6400 -	PULLEY, RAW WATER PUMP DRIVE		
8923807 892752 7	PULLEY, SINGLE GROOVE KEY	1 1	

GROUP NOMENCLATURE

		· - · · · · · · · · · · · · ·	
1.0000	ENGINE (less major assemblies)		COOLING SYSTEM (CONT'D)
1.1000	Cylinder Block	5.4000B	Fan Shroud
1.1000A	Air Box Drains	5.5000A	Heat Exchanger or Keel Cooling Raw Water Pump
1.2000	Cylinder Head	5.6000A 5.7000A	Water Filter
1.2000A	Engine Lifter Bracket	5.7000A	Angrei i tifet
1.3000	Crankshaft, Oil Seals and Stabilizers Crankshaft Front Cover	6.0000	EXHAUST SYSTEM
1.3000A 1.3000B	Vibration Damper	6.1000A	Exhaust Manifold and/or Connections
1.3000C	Crankshaft Pulley	6.2000A	Exhaust Muffler and/or Connections
1.3000D	Crankshaft Pulley Belt	0.2000	
1.4000A	Flywheel	7.0000	ELECTRICAL-INSTRUMENTS
1.5000A	Flywheel Housing	7.1000A	Battery Charging Generator
1.5000B	Flywheel Housing Adaptor	7.2000A	Battery Cables
1.6000	Connecting Rod and Piston	7.2000B	Automatic Starting
1.7000	Camshaft and Gear Train	7.2000B	Automatic Starting (Twin and Quad)
1.7000A	Balance Weight Cover	7.3000A	Starting Motor
1.7000B	Accessory Drive	7.4000A	Instruments
1.8000	Valve and Injector Operating Mechanism	7.4000A	Instruments (Twin and Quad)
1.8000A	Rocker Cover	7.4000B	Tachometer Drive Tachometer Drive (Twin and Quad)
		7.4000B	Shutoff, Alarm and O.S. Governor
2.0000	FUEL SYSTEM	7.4000C 7.4000C	Shutoff, Alarm and O.S. Governor (Twin and Quad)
2.1000A	Fuel Injector	7.5000A	Power Generator
2.2000	Fuel Pump	7.6000A	Control Cabinet
2.2000A 2.3000A	Fuel Pump Drain Fuel Filter and Strainer	7.6000A	Control Cabinet (Twin and Quad)
2.3000A 2.3000A	Fuel Filter and Strainer (Twin and Quad)	7.7000A	Wiring Harness
2.4000 2.4000	Fuel Manifold and/or Connections	7.8000A	Air Heater
2.4000A	Dual Fuel System	7.8000A	Air Heater (Twin and Quad)
2.5000A	Fuel Lines and Fuel Cooler	7.10000A	Hydraulic Governor Solenoid
2.5000A	Fuel Lines and Fuel Cooler (Twin and Quad)		
2.6000A	Fuel Tank	8.0000	POWER TAKE-OFF
2.6000B	Electric Governor	8.1000A	Power Take-off and/or Clutch
2.7000A	Mechanical Governor	8.1000A	Power Take-off and/or Clutch (Twin and Quad)
2.8000A	Hydraulic Governor	8.3000A	Torque Converter
2.9000	Injector Controls	8.3000A	Torque Converter (Twin and Quad)
2.9000	Injector Controls (Twin and Quad)	8.3000B	Transmission Lines
2.9000A	Throttle Controls	0.0000	TRANSMISSION AND PROPULSION
2.9000A	Throttle Controls (Twin and Quad)	9.0000 9.1000A	Hydraulic Marine Gear
0.0000	ALO OVOTEM	9.1000A 9.1000A	Hydraulic Marine Gear (Twin and Quad)
3.0000	AIR SYSTEM	9,2000A	Reverse and Reduction Gear (mechanical)
3.1000A	Air Cleaner and/or Adaptor Air Silencer	9,3000A	Power Transfer Gear
3.2000A 3.3000A	Air Inlet Housing	9.3000A	Power Transfer Gear (Twin and Quad)
3.4000A	Blower and Drive	9.4000	Transmission-Highway
3.4000A	Blower Drive Shaft	9.7000	Transmission—Off-highway
3.4000B	Blower End Plate Cover	9.9000	Transmission—Rail Car
3.5000A	Turbocharger, Intercooler, and Aftercooler		
0.0000		10.0000	SHEET METAL
4.0000	LUBRICATING SYSTEM	10.1000A	Engine Hood
4.1000A	Oil Pump		TALGIAIS MOLIBITIBES
4.1000B	Oil Distribution System	11.0000	ENGINE MOUNTING
4.1000C	Oil Pressure Regulator	11.1000A	Engine Mounting and Base Engine Mounting and Base (Twin and Quad)
4.2000A	Oil Filter	11.1000A	Engine Woulding and base (1 thin the Capaci
4.3000A	Oil Filter Lines	12.0000	MISCELLANEOUS
4.4000A	Oil Cooler and Marine Gear Lines	12.2000A	Bilge Pump
4.5000A	Oil Filler	12.3000A	Vacuum Pump
4.6000A 4.7000A	Dipstick Oil Pan	12.4000A	Air Compressor
4.8000A	Ventilating System	12.5000A	Hydraulic Pump
7,00000	Volumenty by archit	12.6000A	Gasoline Starter
5.0000	COOLING SYSTEM	12.6000B	Air Starter
5.1000	Fresh Water Pump	12.6000C	Cold Weather Starting Aid
5.1000A	Fresh Water Pump Cover	12.6000D	Hydraulic Starter
5.2000A	Water Outlet Manifold and/or Elbow	12.6000E	Hydraulic Starter Accessories
5.2000B	Thermostat	12.8000A	Supplies
5.2000C	Water Bypass Tube	12.8000B	Fabrication Material Miscellaneous Service Kits and Sets
5.3000A	Radiator	12.8000C	
5.3000B	Water Connections	12.8000D	MIZERIANCONS OCIATOR I CITS
5.4000A	Fan		

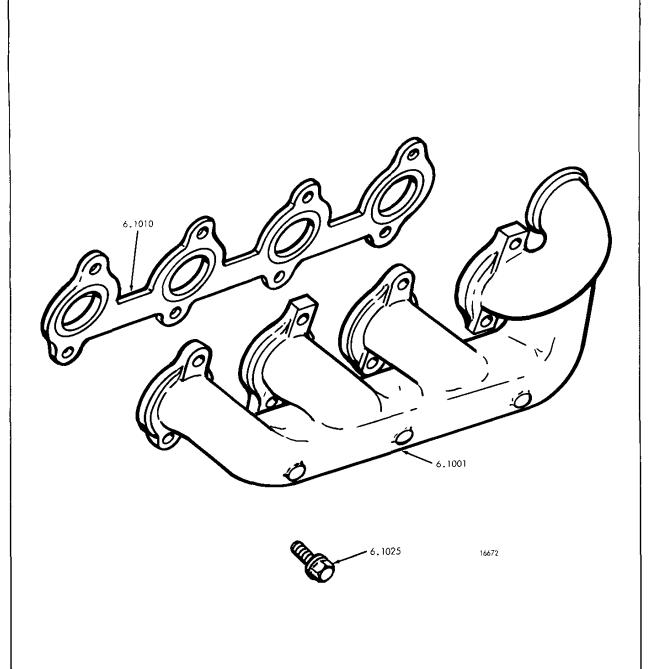


FIG. 1A EXHAUST MANIFOLD (end outlet, right bank)

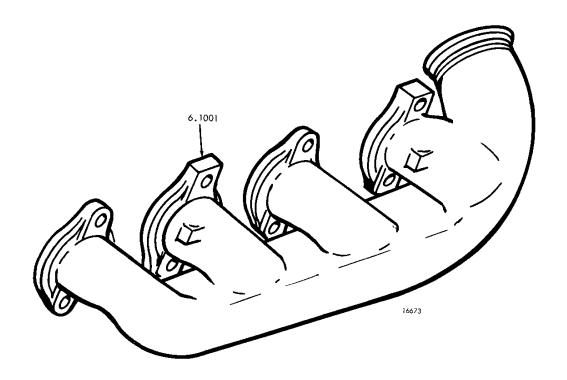


FIG. 1B EXHAUST MANIFOLD (end outlet, left bank)

Fig. 1B of 6.0000

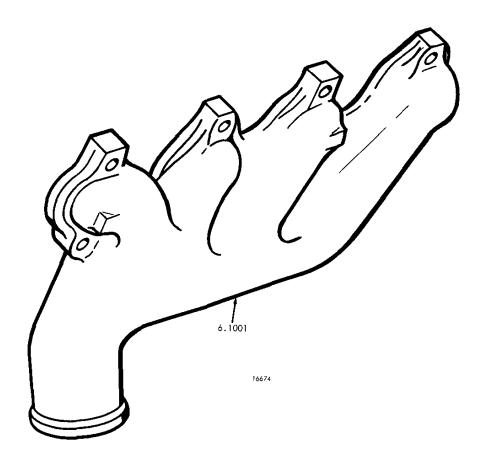


FIG. 1C EXHAUST MANIFOLD (end outlet, right & left bank)

Fig. 1C of 6.0000

6.1000A EXHAUST MANIFOLD AND/OR CONNECTIONS

		6.1000A EXHAUST MANIFOLD AND/OR	CON	IVEC		113								
FIG .	PART NUMBER	NAME AND DESCRIPTION	5 1 5	5 1 6	5 1 7	5 4 7		TYP	ES					Ï
	6.1001 -	MANIFOLD, EXHAUST								ļ		İ		
1C 1A 1A 1B 1B	8920189 8920284 8920285 8921777 8921776 8922964 8922965 8924140 5111798	MANIFOLD (R. AND L. BANK) MANIFOLD (R. BANK) MANIFOLD (L. BANK) MANIFOLD (R. BANK) MANIFOLD (L. BANK) MANIFOLD, WATER COOLED (R. BANK) MANIFOLD, WATER COOLED (L. BANK) DRAINCOCK, 1/4" (12.9510) PLUG, 1" (12.9550)		1 1	1	1 1 2 8								
	6.1010	GASKET, EXHAUST MANIFOLD										ł		
1A	8921817	GASKET	2	2	2	2								
	6.1025	BOLT, EXHAUST MANIFOLD TO HEAD												
1A	8920105	BOLT, M10 X 1.5 X 35.0 MM LOCK	12	12	12		- }			1			1	1
	8923131 8923132	BOLT, M10X1.5X70.0 MM		Table 1		8 8								

6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS

	6.2000A EXHAUST MUFFLER AND/OR C	O,			_		T	YPES .					🗖
PART FIG NUMBER .	NAME AND DESCRIPTION	4 1 5	4 1 9	2	4 2 2	4 2 4							
6.209	O - PIPE, EXHAUST							1				.	1
8921532	PIPE, 3 1/4" I.D. X 3.92" FLANGE X												
5138321	1.00" L. PIPE, 4.013" I.D.X4.66" FLANGE X1.50"	2	1										
5162988 5138363		2	1										
6.212	O - ADAPTOR, EXHAUST OUTLET												
8925610 8924507 5103434 8923847 8924750	ELBOW			1	1 1 2 3	1							
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						Ì							
									1				
													•
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GROUP NOMENCLATURE

			AAA ING AVETEN (CONTIN)
1.0000	ENGINE (less major assemblies)	5.0000	COOLING SYSTEM (CONT'D)
1.1000	Cylinder Block	5.4000B	Fan Shroud
1.1000A	Air Box Drains	5.5000A	Heat Exchanger or Keel Cooling
1.2000	Cylinder Head	5.6000A	Raw Water Pump
1.2000A	Engine Lifter Bracket	5.7000A	Water Filter
1.3000	Crankshaft, Oil Seals and Stabilizers		
1.3000A	Crankshaft Front Cover	6.0000	EXHAUST SYSTEM
1.3000B	Vibration Damper	6.1000A	Exhaust Manifold and/or Connections
1.3000C	Crankshaft Pulley	6.2000A	Exhaust Muffler and/or Connections
1.3000D	Crankshaft Pulley Belt		
1.4000A	Flywheel	7.0000	ELECTRICALINSTRUMENTS
1.5000A	Flywheel Housing	7.1000A	Battery Charging Generator
1.5000A	Flywheel Housing Adaptor	7.2000A	Battery Cables
1.6000	Connecting Rod and Piston	7.2000B	Automatic Starting
	Camshaft and Gear Train	7.2000B	Automatic Starting (Twin and Quad)
1.7000		7.3000A	Starting Motor
1.7000A	Balance Weight Cover		Instruments
1.7000B	Accessory Drive	7.4000A	Instruments (Twin and Quad)
1.8000	Valve and Injector Operating Mechanism	7.4000A	
1.8000A	Rocker Cover	7.4000B	Tachometer Drive
		7.4000B	Tachometer Drive (Twin and Quad)
2.0000	FUEL SYSTEM	7.4000C	Shutoff, Alarm and O.S. Governor
2.1000A	Fuel Injector	7.4000C	Shutoff, Alarm and O.S. Governor (Twin and Quad)
2.2000	Fuel Pump	7.5000A	Power Generator
2.2000A	Fuel Pump Drain	7.6000A	Control Cabinet
2.3000A	Fuel Filter and Strainer	7.6000A	Control Cabinet (Twin and Quad)
2.3000A	Fuel Filter and Strainer (Twin and Quad)	7.7000A	Wiring Harness
2.4000	Fuel Manifold and/or Connections	7.8000A	Air Heater
2.4000A	Dual Fuel System	7.8000A	Air Heater (Twin and Quad)
2.5000A	Fuel Lines and Fuel Cooler	7.10000A	Hydraulic Governor Solenoid
2.5000A	Fuel Lines and Fuel Cooler (Twin and Quad)		·
2.6000A	Fuel Tank	8.0000	POWER TAKE-OFF
2.6000B	Electric Governor	8.1000A	Power Take-off and/or Clutch
2.7000A	Mechanical Governor	8.1000A	Power Take-off and/or Clutch (Twin and Quad)
		8.3000A	Torque Converter
2.8000A	Hydraulic Governor	8.3000A	Torque Converter (Twin and Quad)
2.9000	Injector Controls	8.3000A 8.3000B	Transmission Lines
2.9000	Injector Controls (Twin and Quad)	8,30006	(Tailsiinssion Cines
2.9000A	Throttle Controls	2.0000	TRANSMISSION AND PROPULSION
2.9000A	Throttle Controls (Twin and Quad)	9.0000	
		9.1000A	Hydraulic Marine Gear Hydraulic Marine Gear (Twin and Quad)
3.0000	AIR SYSTEM	9,1000A	Reverse and Reduction Gear (mechanical)
3.1000A	Air Cleaner and/or Adaptor	9.2000A	
3.2000A	Air Silencer	9.3000A	Power Transfer Gear
3.3000A	Air Inlet Housing	9.3000A	Power Transfer Gear (Twin and Quad)
3.4000	Blower and Drive	9,4000	Transmission-Highway
3.4000A	Blower Drive Shaft	9.7000	Transmission—Off-highway
3.4000B	Blower End Plate Cover	9,9000	Transmission—Rail Car
3.5000A	Turbocharger, Intercooler, and Aftercooler		
		10.0000	SHEET METAL
4.0000	LUBRICATING SYSTEM	10.1000A	Engine Hood
4.1000A	Oil Pump		
4.1000B	Oil Distribution System	11.0000	ENGINE MOUNTING
4.1000C	Oil Pressure Regulator	11.1000A	Engine Mounting and Base
4.2000A	Oil Filter	11.1000A	Engine Mounting and Base (Twin and Quad)
4.3000A	Oil Filter Lines		
4.4000A	Oil Cooler and Marine Gear Lines	12.0000	MISCELLANEOUS
4.5000A	Oil Filler	12.2000A	Bilge Pump
4.6000A	Dipstick	12.3000A	Vacuum Pump
	Oil Pan	12.4000A	Air Compressor
4.7000A 4.8000A		12.5000A	Hydraulic Pump
4.8000A	Ventilating System	12.6000A	Gasoline Starter
E 0000	COOLING CYCTEM	12.6000A	Air Starter
5.0000	COOLING SYSTEM	12.6000B	Cold Weather Starting Aid
5.1000	Fresh Water Pump		Hydraulic Starter
5.1000A	Fresh Water Pump Cover	12.6000D	Hydraulic Starter Accessories
5.2000A	Water Outlet Manifold and/or Elbow	12.6000E	Supplies
5.20008	Thermostat	12.8000A	Supplies Fabrication Material
5.2000C	Water Bypass Tube	12.8000B	Miscellaneous Service Kits and Sets
5.3000A	Radiator	12.8000C	Miscellaneous Service Nits and Sets Miscellaneous Service Parts
5.3000B	Water Connections	12,8000D	Milipreligitating Deliving Lairs
5.4000A	Fan		

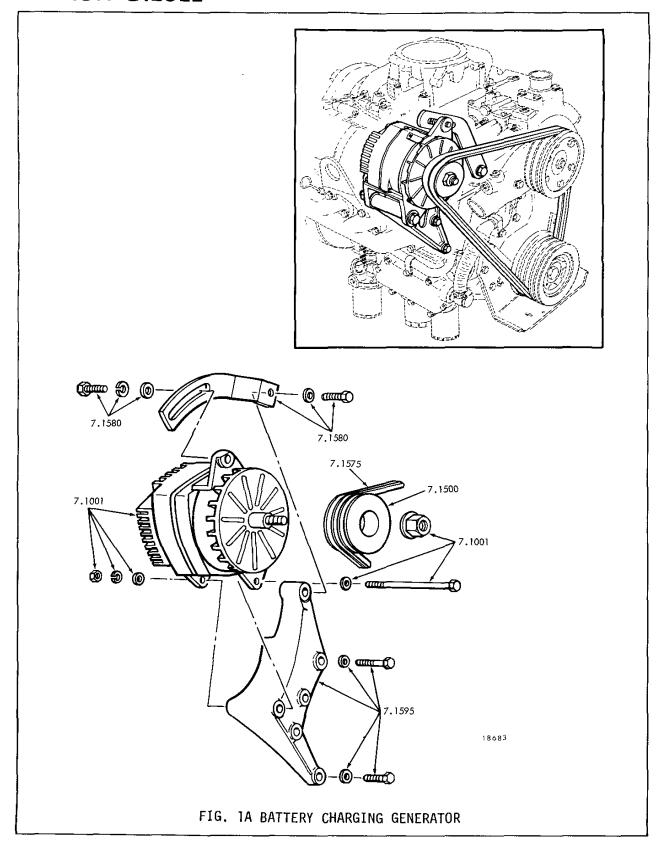


Fig. 1A of 7.0000 h. 1982 © 1982 General Motors Corp.

March, 1982

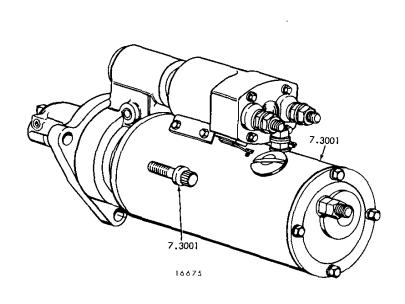


FIG. 3A STARTING MOTOR

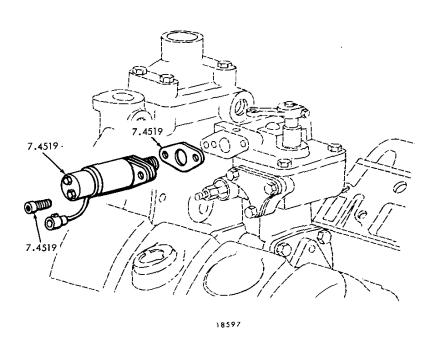


FIG. 4A AIR SHUT-OFF SOLENOID

Figs. 3A & 4A of 7.0000

7.1000A BATTERY, CHARGING GENERATOR

									TYF	EC					
FIG .	PART NUMBER	NAME AND DESCRIPTION	2 1 1 6	2 1 1 7	2 1 3 0	2 1 3 6	2 1 3 8	1 3 9			2 1 6 3	2 1 6 5	2 1 7 5		
	7.1001	- GENERATOR ASSY.		ĺ											
		NOTE: SERVICE ON ELECTRICAL EQUIPMENT (*) IN THIS SECTION IS HANDLED THRU AC DELCO.		 											
1A 1A 1A 1A 1A	1105069 1105539 1105463 1105476 1105510	GENERATOR, CUSTOMER FURNISHED * GENERATOR, 12V. 65 AMP. AC * GENERATOR, 12V. 42 AMP. AC * GENERATOR, 12V. 105 AMP. AC * GENERATOR, 12V. 65 AMP. AC * GENERATOR, 24V. 65 AMP. AC * GENERATOR, 24V. 40 AMP. AC * GENERATOR, 12V. 18 AMP. AC	1	1	1	1	1	1	1	1	1	1			
1A 1A 1A 1A 1A 1A 1A	455537 9427945 5131433 5132715 103321 103323 102635 102637	BOLT, 3/8"-16X4" (12.9001) BOLT, 1/2"-13X6 1/4" WASHER, .41"X.81"X.14" (1.5001) WASHER, .53" I.D.X.12" THK. (1.3140) LOCKWASHER, 3/8" (12.9200) LOCKWASHER, 1/2" (12.9200) NUT, 3/8"-16 (12.9120) NUT, 1/2"-13 (12.9120)	1 2 1	1 2 1		1 2 1	1 1 1 1	1 2 1	1 2 1	1 2 1 1	1 2	1 1 1	1 1 1 1 1 1		
	7.1440	- FAN, GENERATOR													
		* FAN			1	1	1					1	1		
	7.1500	- PULLEY, GENERATOR													
1A 1A 1A	8922530 8923076 8923595	PULLEY, 3 GRV500"X83.0 MM O.D. PULLEY, 2 GRV500"X82.5 MM O.D. PULLEY, 3 GRV500"X83.0 MM O.D.		1	1	1	1			1	1	1 ,	1		
	7.1575	- BELT, GENERATOR DRIVE													
1A	5141155 5136272	BELT SET, .500"X1.00" L. (1.3320) BELT SET, .500"X52.00" L.		1	1	1	1				1	1			
	7.1580	- STRAP, GENERATOR ADJUSTING												-	1
1A 1A 1A 1A 1A 1A 1A	8922529 8923075 8923594 11500868 11500929 11500724 8922036 442733 11502474 5117082 11500191 103323 7.1581	STRAP STRAP STRAP STRAP STRAP BOLT, M8X1.25X30.0 MM (12.9001) BOLT, M10X1.5X25 MM (12.9001) BOLT, M10X1.5X30 MM (12.9001) BOLT, M10X1.5X40.0 MM (12.9001) BOLT, 1/2"-13X1 1/4" (12.9001) WASHER, PLAIN M10 (12.9190) WASHER, PLAIN 1/2" LOCKWASHER, M8 (12.9200) LOCKWASHER, 1/2" (12.9200) - SPACER, GENERATOR ADJUSTING STRAP SPACER, 7/8"-13/32X1/8" THK.	1	1 1 1 1	1 1 1	1	1 1 1 2	1	1 1	1 1 1 1	1 1 1 1	1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
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PAGE 1 OF 7.1000A

7.1000A BATTERY, CHARGING GENERATOR

		7.1000A BATTERY, CHARGING GENERA	IUN												
FIG .	PART NUMBER	NAME AND DESCRIPTION	2 1 1 6	2 1 1 7	2 1 3 0	2 1 3 6	2 1 3 8		2 1 4		2 1 6 3	2 1 6 5	2 1 7 5		
	7.1582	- BRACKET, GENERATOR ADJUSTING STRAP				 									
	5102729 11500868 186624 5121403 11500191 103320 120376	BRACKET BOLT, M8X1.25X30.0 MM (12.9001) BOLT, 5/16"-18X1 1/4" (12.9001) WASHER, 21/64"X1"X3/16" (3.4080) LOCKWASHER, M8 (12.9200) LOCKWASHER, 5/16" (12.9200) NUT, 5/16"-18 (12.9120)				1 1 1 1 1 1	5 5 5 1	1 1 1 1 1 1				1 1 1 1 1	1 1 1 1		
٠	7.1595	- BRACKET, GENERATOR MOUNTING													į.
1A	8922528 8923074 8923593 5137947 11500724	BRACKET BRACKET BRACKET BUSHING, SLOTTED .72" L BOLT, M10X1.5X30.0 MM (12.9001)		1	1 2	1 1 4	1 1	1 1	1 1 	1	1	1 1	1 1		
1A 1A	11500932 11500934 11500730	BOLT, M10X1.5X40 MM (12.9001) BOLT, M10X1.5X60 MM (12.9001) BOLT, M10X1.5X110.0 MM (12.9001)	3	3	1	3	3	3	3	3	3	3	3		
1A	5131433 11502474 11500192 11501052	WASHER, .41"X.81"X.1345" (1.5001) WASHER, PLAIN M10 (12.9190) LOCKWASHER, M10 (12.9200) NUT, M10X1.5 (12.9120)	1	1	1 1		4	4	4	4	4	4	4		
	7.1630	- WIRE ASSY., GENERATOR TO REGULATOR	ļ				,	 		 }					
	5100420 11504530	WIRE ASSY., 12 & 24 VOLT) }	1 1	1		<u> </u> 		 		1	1 1		

7.3000A STARTING MOTOR

	7.000A UTAITING MOTOR									
, .FIG .	PART NUMBERNAME AND DESCRIPTION	3 0 0	3 1 1	3 4 1	3 4 3	3 5 0	TYPES			
	7.3001 - MOTOR ASSY., STARTING									
	NOTE: SERVICE ON ELECTRICAL EQUIPMENT IN THIS SECTION SO (*) INDICATED IS HANDLED THRU UNITED DELCO.	:								
3A	8925578 + MOTOR ASSY., 24V (P/N M0017264									
3A 3A 3A	MD) 1990308 * MOTOR ASSY., 12V. 37MT 8925580 + MOTOR ASSY., 24V (P/N M001094145) 1990329 * MOTOR ASSY., 12V. 40MT	1	1	1	1					
3A	1993702 * MOTOR ASSY., 24V. 37MT	İ			1	1				
3A	8923272 STUD, M16X2.0X100.0 MM (12.9117) 11501803 BOLT, M16 X 2.0 X 45.0 MM (12.9001) 11505769 BOLT, M16X2.0X45.0 MM 12 PT. (12.9005) (12.9005)		3	3	1	3				į
3A	11501752 # BOLT, M16X2.0X50.0 MM (12.9001) 9418228 BOLT, 5/8"-11X1 3/4" 12 PT. HD.				1					
	(12,9005) 103325 LOCKWASHER, 5/8" (12,9200) 11501055 NUT, M16X2.0 (12,9120) + NOT SERVICED BY D.D.A., PROCURE THRU LEECE NEVILLE CO. # USE WITH EARLY STARTER MOTOR	3			2					
	ASSY. 1990218.									
	7.3004 - GASKET, STARTING MOTOR									
	5130995 GASKET	1		1						
			·							
				!						
						į				
				i						

	7.4000C SHUTOFF, ALARM SYSTEM AND O.S GOVERNOR																	
FIG	PART	NAM	E AND DESCRIPT	10N	1 0	1 0				. TYP	ES .							
					4	5		-				Ì	-	-	- {			
	7.4519 -	SOLENOID, A	IR SHUTOFF O	R GOVERNOR		ļ							ļ	-	-	-	ļ	
4A	8923206	SOLENOID 12	v		. 1	1		1				- }			- }	1	1	
4A	8921034 8921033 8927033	GASKET, SOLE GASKET (BETV	NOID MOUNTING	3	· ¹	i						ļ	1					
4A	179795	PLUNGER A BOLT, 1/4"-20	SSY.) X 3/4" (12.9001	i)	1 2	2					-						1	
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GROUP NOMENCLATURE

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1.0000	ENGINE (less major assemblies)	5.0000	COOLING SYSTEM (CONT'D)
1.1000	Cylinder Block	5.4000B	Fan Shroud
1.1000A	Air Box Drains	5.5000A	Heat Exchanger or Keel Cooling
1.2000	Cylinder Head	5.6000A	Raw Water Pump
1.2000A	Engine Lifter Bracket	5.7000A	Water Filter
1.3000	Crankshaft, Oil Seals and Stabilizers		
1.3000A	Crankshaft Front Cover	6.0000	EXHAUST SYSTEM
1.3000B	Vibration Damper	6,1000A	Exhaust Manifold and/or Connections
1.3000B			
	Crankshaft Pulley	6.2000A	Exhaust Muffler and/or Connections
1.3000D	Crankshaft Pulley Belt		
1.4000A	Flywheel	7.0000	ELECTRICAL-INSTRUMENTS
1.5000A	Flywheel Housing	7.1000A	Battery Charging Generator
1.5000B	Flywheel Housing Adaptor	7.2000A	Battery Cables
1.6000	Connecting Rod and Piston	7.2000B	Automatic Starting
1.7000	Camshaft and Gear Train	7.2000B	Automatic Starting (Twin and Quad)
1.7000A	Balance Weight Cover	7.3000A	Starting Motor
1.7000B	Accessory Drive	7.4000A	Instruments
1.8000	Valve and Injector Operating Mechanism	7.4000A	Instruments (Twin and Quad)
1.8000A	Rocker Cover		Tachometer Drive
1.0000A	Hocker Cover	7.4000B	
2 0000	ELEN OVOTEN	7.4000B	Tachometer Drive (Twin and Quad)
2.0000	FUEL SYSTEM	7.4000C	Shutoff, Alarm and O.S. Governor
2.1000A	Fuel Injector	7.4000C	Shutoff, Alarm and O.S. Governor (Twin and Quad)
2.2000	Fuel Pump	7.5000A	Power Generator
2.2000A	Fuel Pump Drain	7.6000A	Control Cabinet
2.3000A	Fuel Filter and Strainer	7.6000A	Control Cabinet (Twin and Quad)
2.3000A	Fuel Filter and Strainer (Twin and Quad)	7.7000A	Wiring Harness
2,4000	Fuel Manifold and/or Connections	7.8000A	Air Heater
2.4000A	Dual Fuel System	7.8000A	Air Heater (Twin and Quad)
2.5000A	Fuel Lines and Fuel Cooler	7.10000A	Hydraulic Governor Solenoid
2.5000A	Fuel Lines and Fuel Cooler (Twin and Quad)	7.10000	Try drawne develorer desenting
2.6000A	Fuel Tank	0.000	POWER TAKE-OFF
6000B		8.0000	Power Take-off and/or Clutch
	Electric Governor	8.1000A	
2.7000A	Mechanical Governor	8.1000A	Power Take-off and/or Clutch (Twin and Quad)
2.8000A	Hydrautic Governor	8.3000A	Torque Converter
2.9000	Injector Controls	8.3000A	Torque Converter (Twin and Quad)
2.9000	Injector Controls (Twin and Quad)	8.3000B	Transmission Lines
2.9000A	Throttle Controls		
2.9000A	Throttle Controls (Twin and Quad)	9.0000	TRANSMISSION AND PROPULSION
		9.1000A	Hydraulic Marine Gear
3.0000	AIR SYSTEM	9.1000A	Hydraulic Marine Gear (Twin and Quad)
3.1000A	Air Cleaner and/or Adaptor	9.2000A	Reverse and Reduction Gear (mechanical)
3.2000A	Air Silencer	9.3000A	Power Transfer Gear
3.3000A			Power Transfer Gear (Twin and Quad)
	Air Inlet Housing	9.3000A	
3.4000	Blower and Drive	9.4000	Transmission—Highway
3.4000A	Blower Drive Shaft	9.7000	Transmission—Off-highway
3.4000B	Blower End Plate Cover	9.9000	Transmission—Rail Car
3.5000A	Turbocharger, Intercooler, and Aftercooler		
		10.0000	SHEET METAL
4.0000	LUBRICATING SYSTEM	10.1000A	Engine Hood
4.1000A	Oil Pump		
4.1000B	Oil Distribution System	11.0000	ENGINE MOUNTING
4.1000C	Oil Pressure Regulator	11.1000A	Engine Mounting and Base
4.2000A	Oil Filter	11.1000A	Engine Mounting and Base (Twin and Quad)
4.3000A	Oil Filter Lines		<u></u>
4.4000A	Oil Cooler and Marine Gear Lines	12.0000	MISCELLANEOUS
4.5000A	Oil Filler	12.2000A	Bilge Pump
4.6000A	- · · · · · · · · · · · · · · · · · · ·		Vacuum Pump
	Dipstick	12.3000A	·
4.7000A	Oil Pan	12.4000A	Air Compressor
4.8000A	Ventilating System	12.5000A	Hydraulic Pump
		12.6000A	Gasoline Starter
5.0000	COOLING SYSTEM	12.6000B	Air Starter
5.1000	Fresh Water Pump	12.6000C	Cold Weather Starting Aid
5.1000A	Fresh Water Pump Cover	12.6000D	Hydraulic Starter
5.2000A	Water Outlet Manifold and/or Elbow	12.6000E	Hydraulic Starter Accessories
.2000B	Thermostat	12.8000A	Supplies
5.2000C	Water Bypass Tube	12.8000B	Fabrication Material
5.3000A	Radiator	12.8000C	Miscellaneous Service Kits and Sets
5.3000A	Water Connections	12.8000C	Miscellaneous Service Parts
5.4000A	Fan	12.00000	migoriality as dollars . alts
U. TUUUM	1 011		

							TYPES .				
PART FIG NUMBER	NAME AND DESCRIPTION	3 7 3		3 7 5	3 7 6						
8.1001	- POWER TAKEOFF ASSY.	}			Ì						
	INCLUDES ITEMS IN 8.1001 THRU 8.1700.			ļ							
8923410 8923409 8923407 8923408 8924411 5192156 138666 11500878 186628 427588 103321	POWER TAKE-OFF ASSY. POWER TAKE-OFF ASSY. POWER TAKE-OFF ASSY. POWER TAKE-OFF ASSY. KEY, 5/8"X4.88"L. KEY, 5/8"X5.25"L. SCREW, SET (12.9076) BOLT, M10X1.5X25.0MM BOLT, 3/8"-16X1 1/2" (12.9001) BOLT, 3/8"-16X2 1/2" (12.9001) LOCKWASHER, 3/8" (12.9200)	1 1 1 1 1 2	1 1 1 1 12 8 8	1 1 1 12 8 8	1						
8.1010	- HOUSING, CLUTCH						} }				
8923763 8923764 8923765 8923766	HOUSING (SAE 2) HOUSING (SAE 2) HOUSING (SAE 2) HOUSING (SAE 2)	ļ	1	1	1						
8.1017	- CLUTCH ASSY.					11	11				
	A CLUTCH ASSY. INCLUDES ITEMS IN 8.1030, 8.1080, 8.1100, 8.1135, 8.1142, 8.1144, 8.1145, 8.1285, 8.1295 AND 8.1315.										
8924407 5196452 8924397 5193450 5197229	CLUTCH ASSY., 11 1/2" CLUTCH ASSY., 11 1/2" CLUTCH ASSY., 11 1/2" KEY, 3/8"X1/2"X2 1/4" KEY, 1/2"X3 1/4"	1	1	1 1	1						
8.1018	RING, CLUTCH DRIVING				ľ				1		İ
5192163 5194954	RING, 11 1/2"X7/8" WIDE	1	1	1	1		} }				
8.1020	DISC ASSY., CLUTCH			ĺ	- [} }	1 1	Ī		}	
8924400	DISC DRIVE			2							
8.1030	FACING, CLUTCH						} }			} }	
8924408 5197884	FACING	1	2		1						
8.1060	COVER, CLUTCH HOUSING INSPECTION HOLE										
5199882 5149358 131375	COVER COVER SCREW, 1/4"-20X3/8" RD. HD.	1	1	1	1						
	(12.9025)	2	2	2	2))]]	
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							TYPES	. , , ,			📶
FIG NO	PART JMBER	NAME AND DESCRIPTION	3 7 3	3 7 4	3 7 5	3 7 6					
	8.1070 -	GASKET, CLUTCH HOUSING INSPECTION HOLE COVER				, ,					
51	92415	GASKET	1	1	1	1]			
	8.1080 -	PLATE, CLUTCH PRESSURE						1 1)		
51: 89: 51:	94141 94290 24401 94951 97112	PLATE, OUTER PLATE, INNER PLATE, INNER PLATE, CENTER PLATE, OUTER] 1	1 1 1	1	1					
	8.1100 -	SPRING, CLUTCH TOGGLE LEVER									{
519	94138	SPRING	1	1	1	1					
	8.1135 -	SPRING, CLUTCH PRESSURE PLATE RETURN									
	93431 94952	SPRING, COIL		3	3	3					
	8.1142 -	LEVER, CLUTCH RELEASE YOKE						1 1 1			ļ
519 519	94140 93422 94953 92142	LEVER PIN, .373"X1 1/4" CLEVIS PIN, 5/16"X1 1/2" SPRING (12.9300) RING, RETAINING	3 3	3	3333	3 3					
	8.1144 -	NUT, CLUTCH ADJUSTING									
519	97883	NUT, 7 1/2"-16	1	1	1	1		1 1		} }	
	8.1145 -	LOCK, CLUTCH ADJUSTING NUT]] }]	}
	96867 9789	LOCK	1		1.	1.]]]				1
179	9798 1604	BOLT, 1/4"-20X1 1/8" (12,9001) LOCKWASHER, 1/4" EXT. TOOTH	'	1	1	'		1 1 1			1
	7004	(12.9210)	1	1	1	1				1	1
	8.1146 -	PLATE, CLUTCH ADJUSTING NUT WEAR	}							1 1	
519	97882	PLATE, WEAR	1	1	1	1]]			
	8.1270 -	SHAFT, CLUTCH RELEASE	}							1]	
149	92251 5692	SHAFT	1 2	1 2	1 2	1 2					
			•	•		-					

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PAGE 2 OF 8.1000A

							TYDE	3				
PART FIG NUMBER	NAME AND DESCRIPTION	3 7 3		3 7								
8.1275	- YOKE, CLUTCH RELEASE						1					
	A YOKE ASSY. INCLUDES BOLT AND LOCKWASHER IN 8.1275.											
5192150 5197111 113782 186622 103321	YOKE ASSY. YOKE ASSY. KEY, 1/4"X1" WOODRUFF (12.9350) BOLT, 3/8"-16X1 1/4" (12.9001) LOCKWASHER, 3/8" (12.9200)	2 2	1 2 2 2	2	1 2 2 2 2							
8.1285	- SLEEVE, CLUTCH RELEASE		1									
5193432 5197113	SLEEVE		1	1	1							
8.1295	- COLLAR, CLUTCH RELEASE	}]			Ì			1			-
5196715 5197114 100018 106288 214279 192481	BEARING ASSY. BEARING ASSY. BOLT, 5/16"-24X2" (12.9001) BOLT, 3/8"-24X2 1/4" (12.9001) NUT, 5/16"-24 (12.9120) NUT, 3/8"-24 (12.9120)	2 2	1 2 2	1 2 2	2							
8.1315	- LINK, CLUTCH RELEASE YOKE	1				ľ		11	ĺ			
5193421 5193420 5192176	LINK PIN, 5/16"X11/16" CLEVIS RING, RETAINING	l 6	6 6		6 6							
8.1320	HOSE, CLUTCH RELEASE BEARING											
5192295 191758 122366	HOSE ASSY 7/16" O.D.X8 15/16"L	13	3	1 3 1	1 3 1							
8.1450	BEARING, CLUTCH PILOT						1 1		- (]	- (
954427 907594	BEARING (N.D. 5606WLIC) BEARING (N.D. Z99606X1C)	1] 	1	1							
8.1470	LEVER, CLUTCH HAND CONTROL					ĺ		11		{ [
	A LEVER ASSY. INCLUDES BOLT AND LOCKWASHER IN 8.1470.											
3290211 186628 103321	LEVER ASSY. BOLT, 3/8"-16X1 1/2" (12.9001) LOCKWASHER, 3/8" (12.9200)	J 1	1 1 1	1 1 1	1 1 1							
8.1670	SHAFT, CLUTCH DRIVE			ļ								
8924410 8924394 8924481 8924404 8924380	SHAFT, 19.62"L. (END LUBE) SHAFT, 20.0"L. (SIDE OR END LUBE) SHAFT, 20.0"L. (SIDE LUBE) SHAFT, 19.62"L. (SIDE LUBE) PLUG, 1/8" (12.9550)		1	1	1	 						
		1 .	1	ı	- 1	J	i I	1 1	1	<i>i</i> 1	I	1

	8.1000A POWER TAKEOFF AND/ON GES								_					
PART .FIG NUMBER	NAME AND DESCRIPTION	3 7 3	3 7 4	3 7 5	3 7 6		•	YPE:	s					1
8.1670 -	SHAFT, CLUTCH DRIVE (CONT'D)						į Į		{					
5192154 5197559 5192153 5197558	LOCKWASHER, 1 5/16" LOCKWASHER, 25/32" NUT, 1 5/16"-12 NUT, 1 3/4"-10	1	1	1	1						} 			
8.1680	BEARING, CLUTCH DRIVE SHAFT							ļ		ļ		İ		
443749 453812 8924395 8924403 8924399 8924405	BEARING BEARING BEARING BEARING RING, SNAP RING, SNAP	2	2	1 2	1 2	1 1								
8.1690	- RETAINER, CLUTCH DRIVE SHAFT BEARING] 		} }						1	ļ	
5192149 5197004 8924396	RETAINER	1	1	1	1									
8.1695	SPACER, CLUTCH DRIVE SHAFT BEARING RETAINER	 										ļ		
5199891	SPACER (8.1945)				1							[
8.1700	- LOCK, CLUTCH DRIVE SHAFT BEARING RETAINER													
3223379 179812 103320	LOCK BOLT, 5/16"-18X1/2" (12.9001) LOCKWASHER, 5/16" (12.9200)	1 1	1 1 1	1										

GROUP NOMENCLATURE

1.0000	ENGINE (less major assemblies)	5.0000	COOLING SYSTEM (CONT'D)
1.1000	Cylinder Block	5.4000B	Fan Shroud
1.1000A	Air Box Drains	5.5000A	Heat Exchanger or Keel Cooling
1.2000	Cylinder Head	5.6000A	Raw Water Pump
1.2000A	Engine Lifter Bracket	5.7000A	Water Filter
1.3000	Crankshaft, Oil Seals and Stabilizers		
1.3000A	Crankshaft Front Cover	6.0000	EXHAUST SYSTEM
1.3000B	Vibration Damper	6.1000A	Exhaust Manifold and/or Connections
1.3000C	Crankshaft Pulley	6.2000A	Exhaust Muffler and/or Connections
1.3000D	Crankshaft Pulley Belt		EL COMPANY AND AND AND AND AND AND AND AND AND AND
1.4000A	Flywheel	7.0000	ELECTRICALINSTRUMENTS
1.5000A	Flywheel Housing	7.1000A	Battery Charging Generator
1.5000B	Flywheel Housing Adaptor	7.2000A	Battery Cables
1.6000	Connecting Rod and Piston Camshaft and Gear Train	7.2000B	Automatic Starting Automatic Starting (Twin and Quad)
1.7000 1.7000A		7,2000B	Starting Motor
1.7000A	Balance Weight Cover Accessory Drive	7.3000A 7.4000A	Instruments
1.8000	Valve and Injector Operating Mechanism	7,4000A 7,4000A	Instruments (Twin and Quad)
1.8000A	Rocker Cover	7.4000A 7.4000B	Tachometer Drive
7.000071	TIOBRE OUTE	7.4000B	Tachometer Drive (Twin and Quad)
2.0000	FUEL SYSTEM	7.4000C	Shutoff, Alarm and O.S. Governor
2.1000A	Fuel Injector	7.4000C	Shutoff, Alarm and O.S. Governor (Twin and Quad)
2.2000	Fuel Pump	7.5000A	Power Generator
2.2000A	Fuel Pump Drain	7.6000A	Control Cabinet
2.3000A	Fuel Filter and Strainer	7,6000A	Control Cabinet (Twin and Quad)
2.3000A	Fuel Filter and Strainer (Twin and Quad)	7.7000A	Wiring Harness
2.4000	Fuel Manifold and/or Connections	7.8000A	Air Heater
2.4000A	Dual Fuel System	7.8000A	Air Heater (Twin and Quad)
2.5000A	Fuel Lines and Fuel Cooler	7.10000A	
2.5000A	Fuel Lines and Fuel Cooler (Twin and Quad)		•
2.6000A	Fuel Tank	8.0000	POWER TAKE-OFF
2.6000B	Electric Governor	8.1000A	Power Take-off and/or Clutch
2.7000A	Mechanical Governor	8,1000A	Power Take-off and/or Clutch (Twin and Quad)
2.8000A	Hydraulic Governor	8.3000A	Torque Converter
2.9000	Injector Controls	8.3000A	Torque Converter (Twin and Quad)
2.9000	Injector Controls (Twin and Quad)	8.3000B	Transmission Lines
2.9000A	Throttle Controls		
2.9000A	Throttle Controls (Twin and Quad)	9.0000	TRANSMISSION AND PROPULSION
		9.1000A	Hydraulic Marine Gear
3.0000	AIR SYSTEM	9.1000A	Hydraulic Marine Gear (Twin and Quad)
3.1000A	Air Cleaner and/or Adaptor	9.2000A	Reverse and Reduction Gear (mechanical)
3.2000A	Air Silencer	9.3000A	Power Transfer Gear
3.3000A	Air Inlet Housing	9.3000A	Power Transfer Gear (Twin and Quad)
3.4000	Blower and Drive	9,4000	Transmission—Highway
3.4000A	Blower Drive Shaft	9.7000	Transmission—Off-highway
3.4000B	Blower End Plate Cover	9.9000	Transmission—Rail Car
3.5000A	Turbocharger, Intercooler, and Aftercooler		OUTET METAL
4 0000		10.0000	SHEET METAL
4.0000	LUBRICATING SYSTEM	10.1000A	Engine Hood
4.1000A	Oil Pump	44.0000	ENGINE MOUNTING
4.1000B	Oil Distribution System	11,0000 11,1000A	Engine Mounting and Base
4.1000C	Oil Pressure Regulator Oil Filter	11.1000A	Engine Mounting and Base (Twin and Quad)
4.2000A 4.3000A	Oil Filter Lines	11.1000A	Engine Modiffing and Dase (1 Min and 1111)
4.4000A	Oil Cooler and Marine Gear Lines	12.0000	MISCELLANEOUS
4.5000A	Oil Filler	12.2000A	Bilge Pump
4.6000A	Dipstick	12.3000A	Vacuum Pump
4.7000A	Oil Pan	12.4000A	Air Compressor
4.8000A	Ventilating System	12,5000A	Hydraulic Pump
4.000A	- outline of storie	12.6000A	Gasoline Starter
5.0000	COOLING SYSTEM	12.6000A	Air Starter
5.1000	Fresh Water Pump	12.6000C	Cold Weather Starting Aid
5.1000 5.1000A	Fresh Water Pump Cover	12.6000D	Hydraulic Starter
5.2000A	Water Outlet Manifold and/or Elbow	12.6000E	Hydraulic Starter Accessories
5.2000B	Thermostat	12.8000A	Supplies
5.2000C	Water Bypass Tube	12.8000B	Fabrication Material
5.3000A	Radiator	12.8000C	Miscellaneous Service Kits and Sets
5.3000B	Water Connections	12.8000D	Miscellaneous Service Parts
5.4000A	Fan		

9.1000A HYDRAULIC MARINE GEAR

	9.1000A	HYDRAULIC MA	ARINE GEAR										
PART FIG NUMBER	NAN	ME AND DESCRIPTION	ON	1 0 7 6	1 0 7 7	1 0 8 5			TYPES				
9.1001	- GEAR ASSY.	, HYDRAULIC M.	ARINE	}			}	{ }	Ì	1	1 1	1	} }
	THRU TWIN D RACINE, WISC	SEMBLIES OR COM ISC INC. 1328 RAC : 53403 OR NEARI NISH TWIN DISC N	CINE ST., EST										
8924251		1.54:1 MG502 TW		1	}	}	} }	1 1	İ	{ }	} }	}	1 1
8924342	GEAR ASSY.,	2:1 MG502A TWIN	DISC	1				11	ļ		1 1	l	
8921936 191309	BOLT, 7/16"-1	4X1 1/4" (12.900 4X2 1/8" (12.900	1)	6	6 2			}		} }			} }
9.1006 -	COUPLING, I	MARINE GEAR D	RIVE				} }	1			1 1		}
5129638				1	1	1				1	1 1		
8923226	PATCH)	!5X20.0 MM (W/S	EAL 	8	8	8) 						
9.1430 -	FLANGE, PR	OPELLER DRIVE		}			} }	1		} }	1 1	}	
8924622	FLANGE			1	1	1							
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GROUP NOMENCLATURE

	GROUP	NOMENCLA	TURE
1.0000	ENGINE (less major assemblies)	5.0000	COOLING SYSTEM (CONT'D)
1.1000	Cylinder Block	5.4000B	Fan Shroud
1.1000A	Air Box Drains	5.5000A	Heat Exchanger or Keel Cooling
1.2000	Cylinder Head	5.6000A	Raw Water Pump
1.2000A	Engine Lifter Bracket	5.7000A	Water Filter
1.3000	Crankshaft, Oil Seals and Stabilizers		
1.3000A	Crankshaft Front Cover	6.0000	EXHAUST SYSTEM
1.3000B	Vibration Damper	6.1000A	Exhaust Manifold and/or Connections
1.3000C	Crankshaft Pulley	6.2000A	Exhaust Muffler and/or Connections
1.3000D	Crankshaft Pulley Belt		CL COTDION LINETDUMICALTY
1.4000A	Flywheel	7.0000	ELECTRICAL-INSTRUMENTS
1.5000A	Flywheel Housing	7.1000A	Battery Charging Generator Battery Cables
1.5000B	Flywheel Housing Adaptor	7.2000A	Automatic Starting
1.6000	Connecting Rod and Piston	7,2000B 7,2000B	Automatic Starting Automatic Starting (Twin and Quad)
1.7000	Camshaft and Gear Train Balance Weight Cover	7.3000B 7.3000A	Starting Motor
1.7000A 1.7000B	Accessory Drive	7,4000A 7,4000A	Instruments
1.8000	Valve and Injector Operating Mechanism	7.4000A	Instruments (Twin and Quad)
1.8000A	Rocker Cover	7.4000B	Tachometer Drive
1.0000	Hocker bover	7.4000B	Tachometer Drive (Twin and Quad)
2,0000	FUEL SYSTEM	7.4000C	Shutoff, Alarm and O.S. Governor
2.1000A	Fuel Injector	7.4000C	Shutoff, Alarm and O.S. Governor (Twin and Quad)
2.2000	Fuel Pump	7.5000A	Power Generator
2.2000A	Fuel Pump Drain	7.6000A	Control Cabinet
2.3000A	Fuel Filter and Strainer	7,6000A	Control Cabinet (Twin and Quad)
2.3000A	Fuel Filter and Strainer (Twin and Quad)	7.7000A	Wiring Harness
2.4000	Fuel Manifold and/or Connections	7.8000A	Air Heater
2.4000A	Dual Fuel System	7.8000A	Air Heater (Twin and Quad)
2.5000A	Fuel Lines and Fuel Cooler	7.10000A	Hydraulic Governor Solenoid
2.5000A	Fuel Lines and Fuel Cooler (Twin and Quad)	0.0500	POWER TAKE-OFF
2.6000A	Fuel Tank	8.0000	Power Take-off and/or Clutch
2.6000B	Electric Governor	8.1000A	Power Take-off and/or Clutch (Twin and Quad)
2.7000A	Mechanical Governor	8.1000A 8.3000A	Torque Converter
2.8000A	Hydraulic Governor	8.3000A	Torque Converter (Twin and Quad)
2.9000	Injector Controls	8,3000A 8,3000B	Transmission Lines
2.9000	Injector Controls (Twin and Quad)	0.0000	() () () () () () () () () ()
2.9000A 2.9000A	Throttle Controls Throttle Controls (Twin and Quad)	9.0000	TRANSMISSION AND PROPULSION
2.9000A	Infottle Controls (Twin and Quad)	9,1000A	Hydraulic Marine Gear
3.0000	AIR SYSTEM	9.1000A	Hydraulic Marine Gear (Twin and Quad)
3.1000A	Air Cleaner and/or Adaptor	9,2000A	Reverse and Reduction Gear (mechanical)
3.2000A	Air Silencer	9,3000A	Power Transfer Gear
3.3000A	Air Inlet Housing	9.3000A	Power Transfer Gear (Twin and Quad)
3,4000	Blower and Drive	9.4000	Transmission—Highway
3.4000A	Blower Drive Shaft	9.7000	Transmission—Off-highway
3.4000B	Blower End Plate Cover	9.9000	Transmission—Rail Car
3.5000A	Turbocharger, Intercooler, and Aftercooler		
		10.0000	SHEET METAL
4.0000	LUBRICATING SYSTEM	10.1000A	Engine Hood
4.1000A	Oil Pump	44.0000	ENGINE MOUNTING
4.1000B	Oil Distribution System	11.0000	Engine Mounting and Base
4.1000C	Oil Pressure Regulator	11.1000A 11.1000A	Engine Mounting and Base (Twin and Quad)
4.2000A	Oil Filter	11,1000	Engine mooning and active to the
4.3000A	Oil Filter Lines Oil Cooler and Marine Gear Lines	12.0000	MISCELLANEOUS
4.4000A 4.5000A	Oil Filler	12.2000A	Bilge Pump
4.6000A	Dipstick	12.3000A	Vacuum Pump
4.7000A	Oil Pan	12.4000A	Air Compressor
4.8000A	Ventilating System	12.5000A	Hydrautic Pump
		12.6000A	Gasoline Starter
5.0000	COOLING SYSTEM	12.6000B	Air Starter
5.1000	Fresh Water Pump	12.6000C	Cold Weather Starting Aid
_ 5.1000A	Fresh Water Pump Cover	12.6000D	Hydraulic Starter
5.2000A	Water Outlet Manifold and/or Elbow	12.6000E	Hydraulic Starter Accessories
5.2000B	Thermostat	12.8000A	Supplies Material
5.2000C	Water Bypass Tube	12.8000B	Fabrication Material Miscellaneous Service Kits and Sets
5.3000A	Radiator	12.8000C	Miscellaneous Service Kits and Sets Miscellaneous Service Parts
5.30008	Water Connections	12.8000D	Milecengueore pervice Larce
5.4000A	Fan		

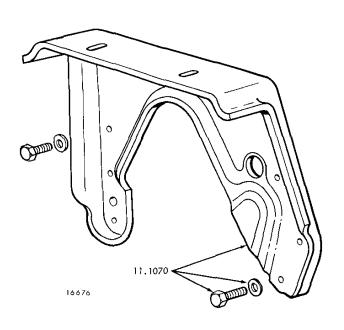


FIG. 1A ENGINE FRONT SUPPORT

Fig. 1A of 11.0000

11.1000A ENGINE MOUNTING AND BASE

		11.1000A ENGINE MOUNTING AND BASE							T1/050			
FIG .	PART NUMBER	NAME AND DESCRIPTION	6 4 7	6 5 6	6 6 7	6 6 8	6 6 9	6 7 0	TYPES			
	11.1070 -	SUPPORT, ENGINE FRONT								1	-	-
1A 1A	8920186 8922493 8922954 8922955 8923077 8923079 8922228 11500724 11500725 8923287 11500891	SUPPORT SUPPORT SUPPORT SUPPORT SUPPORT, L.H. SUPPORT, STRAP BOLT, M10X1.5X25.0 MM (12.9001) BOLT, M10X1.5X30.0 MM (12.9001) BOLT, M10X1.5X35.0 MM (12.9001) BOLT, M10X1.5X35.0 MM (12.9001) BOLT, M10X1.5X35.0 MM (12.9001)	1	1	1 1 1 3 2	1 1 1 3 2	1 2	1				
1A	8922194	BOLT, M10X1.50X35.0 MM (W/LK, PATCH)	4	4						1 1	1 1	
1A 1A	8922039 8920162 5131913	BOLT, M12X1.75X35.0 MM	2	2			2	2		} {	} }	
1A	5131978 11501052	SPECIAL (3.4001) WASHER, 53"X1.00" SPECIAL (1.5001) NUT, M10X1.5 (12.9120)	4 2	4 2	1	1	2 2	2 2				į
	11.1072 -	MOUNTING, ENGINE FRONT SUPPORT ELASTIC					} 					
	8923234	MOUNTS, RUBBER			4	4						
	11.1100 -	SUPPORT, ENGINE REAR										
	8923080 179882 103323	SUPPORT BOLT, 1/2*-13X1 1/8* (12.9001) LOCKWASHER, 1/2* (12.9200)				244						

GROUP NOMENCLATURE

	01.001	TOME TODAY	TONE
1.0000	ENGINE (less major assemblies)	5.0000	COOLING SYSTEM (CONT'D)
1.1000	Cylinder Block	5.4000B	Fan Shroud
1.1000A	Air Box Drains	5.5000A	Heat Exchanger or Keel Cooling
1.2000	Cylinder Head	5.6000A	Raw Water Pump
1.2000A	Engine Lifter Bracket	5.7000A	Water Filter
1.3000	Crankshaft, Oil Seals and Stabilizers	6 0000	EXHAUST SYSTEM
1,3000A	Crankshaft Front Cover	6.0000 6.1000A	Exhaust Manifold and/or Connections
1.3000B	Vibration Damper	6,2000A	Exhaust Muffler and/or Connections
1.3000C 1.3000D	Crankshaft Pulley Crankshaft Pulley Belt	0.2000A	Extradist Marines and or Controllers
1.4000A	Flywheel	7.0000	ELECTRICAL-INSTRUMENTS
1.5000A	Flywheel Housing	7,1000A	Battery Charging Generator
1.5000A	Flywheel Housing Adaptor	7.2000A	Battery Cables
1.6000	Connecting Rod and Piston	7.2000B	Automatic Starting
1,7000	Camshaft and Gear Train	7.2000B	Automatic Starting (Twin and Quad)
1.7000A	Balance Weight Cover	7.3000A	Starting Motor
1.7000B	Accessory Drive	7.4000A	Instruments
1.8000	Valve and Injector Operating Mechanism	7.4000A	Instruments (Twin and Quad)
1.8000A	Rocker Cover	7.4000B	Tachometer Drive
		7.4000B	Tachometer Drive (Twin and Quad)
2.0000	FUEL SYSTEM	7.4000C	Shutoff, Alarm and O.S. Governor Shutoff, Alarm and O.S. Governor (Twin and Quad)
2.1000A	Fuel Injector	7.4000C 7.5000A	Power Generator
2.2000 2.2000A	Fuel Pump Fuel Pump Drain	7.6000A 7.6000A	Control Cabinet
2.3000A	Fuel Filter and Strainer	7.6000A 7.6000A	Control Cabinet (Twin and Quad)
2.3000A	Fuel Filter and Strainer (Twin and Quad)	7.7000A	Wiring Harness
2.4000	Fuel Manifold and/or Connections	7.8000A	Air Heater
2.4000A	Dual Fuel System	7.8000A	Air Heater (Twin and Quad)
2.5000A	Fuel Lines and Fuel Cooler	7.10000A	Hydraulic Governor Solenoid
_ 2.5000A	Fuel Lines and Fuel Cooler (Twin and Quad)		
2.6000A	Fuel Tank	8.0000	POWER TAKE-OFF
2.6000B	Electric Governor	8.1000A	Power Take-off and/or Clutch
2.7000A	Mechanical Governor	8.1000A	Power Take-off and/or Clutch (Twin and Quad)
2.8000A	Hydraulic Governor	8.3000A	Torque Converter
2.9000	Injector Controls	8.3000A	Torque Converter (Twin and Quad)
2.9000	Injector Controls (Twin and Quad)	8.3000B	Transmission Lines
2.9000A	Throttle Controls	9.0000	TRANSMISSION AND PROPULSION
2.9000A	Throttle Controls (Twin and Quad)	9.1000A	Hydraulic Marine Gear
3.0000	AIR SYSTEM	9.1000A	Hydraulic Marine Gear (Twin and Quad)
3.1000A	Air Cleaner and/or Adaptor	9,2000A	Reverse and Reduction Gear (mechanical)
3.2000A	Air Silencer	9.3000A	Power Transfer Gear
3.3000A	Air Inlet Housing	9,3000A	Power Transfer Gear (Twin and Quad)
3.4000	Blower and Drive	9.4000	Transmission—Highway
3.4000A	Blower Drive Shaft	9.7000	Transmission—Off-highway
3.4000B	Blower End Plate Cover	9.9000	Transmission—Rail Car
3.5000A	Turbocharger, Intercooler, and Aftercooler		
		10.0000	SHEET METAL
4.0000	LUBRICATING SYSTEM	10.1000A	Engine Hood
4.1000A 4.1000B	Oil Pump	11,0000	ENGINE MOUNTING
4.1000B	Oil Distribution System	11.1000A	Engine Mounting and Base
4.2000A	Oil Pressure Regulator Oil Filter	11.1000A	Engine Mounting and Base (Twin and Quad)
4.3000A	Oil Filter Lines		
4.4000A	Oil Cooler and Marine Gear Lines	12.0000	MISCELLANEOUS
4.5000A	Oil Filler	12.2000A	Bilge Pump
4.6000A	Dipstick	12.3000A	Vacuum Pump
4.7000A	Oil Pan	12.4000A	Air Compressor
4.8000A	Ventilating System	12.5000A	Hydraulic Pump
		12.6000A	Gasoline Starter
5.0000	COOLING SYSTEM	12.6000B	Air Starter
5.1000	Fresh Water Pump	12.6000C	Cold Weather Starting Aid
5.1000A	Fresh Water Pump Cover	12.6000D	Hydraulic Starter Hydraulic Starter Accessories
5.2000A	Water Outlet Manifold and/or Elbow	12.6000E 12.8000A	Supplies
5.2000B 5.2000C	Thermostat Water Bypass Tube	12.8000A 12.8000B	Fabrication Material
5.2000C 5.3000A	Radiator	12.8000D	Miscellaneous Service Kits and Sets
5.3000A	Water Connections	12.8000D	Miscellaneous Service Parts
5.4000A	Fan		

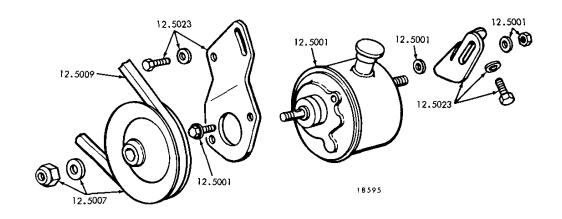


FIG. 1A HYDRAULIC PUMP

Fig. 1A of 12,0000

			. ,				TYPES .				
PART .FIG NUMBER	NAME AND DESCRIPTION	1 1 9 5	1 1 9 6	1 2 1 8							
12.4001	- COMPRESSOR ASSY., AIR								1 1		
	COMPONENTS OF AIR COMPRESSOR ASSYS. ARE NOT SERVICED BY DDA. FOR COMPONENT REPLACEMENT CONTACT BENDIX WESTI NGHOUSE (B.W.) OR MIDLAND ROSS (M.R.) FURNISH THEIR ASSEMBLY PART NUMBER WHICH IS SHOWN IN PARENTHESES.	e I									
NPN	COMPRESSOR ASSY. (CUSTOMER				ا ا				11	1 1	l (
8922696	FURNISHED) COMPRESSOR ASSY., 12 CFM (M.R.				1					1 1	
8923197	#N-7002-AA) COMPRESSOR ASSY., TU-FLO 501 (B.W.	1						- 1			
5106141	#102688) COMPRESSOR ASSY., 7 1/4 CFM (M.R. #N-5 308-B)		1	1							
5145014 454933 103322	PLUG, 3/8" PIPE (12.9550) BOLT, 7/16"-14X1 1/8" (12.9001) LOCKWASHER, 7/16" (12.9200)	4		2	4					; ;	
12.4010	BRACKET, AIR COMPRESSOR MOUNTING										
8922537 8922536 8922535 8922540 8923195 8923565 8926250 11500881 8926242 11501752	BRACKET SUPPORT, BRACKET (FRONT) SUPPORT, BRACKET (REAR) BRACKET, ADJ. STRAP BRACKET, ADJ. STRAP BRACKET BOLT, M10X1.5X35.0MM (12.9001) BOLT, M10X1.5X40.0 MM (12.9001) BOLT, M10X1.5X100.0 MM (12.9001) BOLT, M10X1.5X100.0 MM (12.9001) BOLT, M16X2X50.0MM (12.9001)	1 1 1	1 1 3 2 1 1	1 1 1 3 2 1 2	1 1 1 1 3 2						!
11501754 8922542	BOLT, M16X2X70.0MM (12.9001) BOLT, 5/16"-18X1 1/4" (W/SEALANT) (12.9001)	1	1	1 3	1						
11502474 11500242 11501055 103025	WASHER, M10 (12.9190) WASHER, 16MM (12.9190) NUT, M16X2.0 (12.9120) NUT, 5/16"-24 (12.9120)	2 2 2	2 2 2 3	2 2 2	2 2 2						3
12.4011	- STRAP, AIR COMPRESSOR MOUNTING BRACKET ADJUSTING										
8922539 8923194 8923573 11500877 11500724 103341 11502474 11501033	STRAP STRAP STRAP BOLT, M10X1.5X20.0MM (12.9001) BOLT, M10X1.5X30.0MM (12.9001) WASHER, 3/8" (12.9190) WASHER, M10 (12.9190) NUT, M10X1.5 (12.9190)	1 1 1	1 1 1 1	1	1 1 1 1						!
12.4015	- PULLEY, AIR COMPRESSOR	}								} }	
8922534	PULLEY, SINGLE .50" VEE GROOVE	1	1	1							
										!	
			}								
8923573 11500877 11500724 103341 11502474 11501033	STRAP BOLT, M10X1.5X20.0MM (12.9001) BOLT, M10X1.5X30.0MM (12.9001) WASHER, 3/8" (12.9190) WASHER, M10 (12.9190) NUT, M10X1.5 (12.9190) PULLEY, AIR COMPRESSOR	1 1 1	1 1 1	1 1 1 1	i 1						

	12.4000A	AIR COMPRESSO	R											4
PART .FIG NUMBER	NAN	1E AND DESCRIPTIO	N	1 1 9 5	1 1 9 6	1 2 1 8	1 2 3 8		TYPI	≣S		 		•
12.4019 -	BRACKET, B	ELT GUIDE						ļ						
8922541 11500729 8926242	BOLT, M10X1	.5x85.0MM (12.900 .5x100.0MM (12.90)1)	1 1 1	1 1 1	1 1 1	1 1							
				: }						j			}	
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	·												
PART NUMBER	NAME AND DESCRIPTION	1 1 9 5	1 9	1 2 1 8				ES					
12.4026	BEARING, BELT GUIDE					-		\	}	1	} }	1	}
908076	BEARING ASSY. (W/INTEGRAL SHAFT)	1	1	1	1								
12.4027 -	PULLEY, BELT GUIDE												
8922538	PULLEY, SINGLE .50" VEE GROOVE	1	1	1	1								
12.4045 -	BELT, AIR COMPRESSOR DRIVE												- 1
5162998	BELT, .50" W X 73" (2 BELTS) (1.3320)	1	1	1									
12.4065	TUBE, AIR COMPRESSOR LUBE OIL SUPPLY												
5131253 8924218	HOSE ASSY., 5/16"X14" (2.5149)				1	1) }	}		1 }	Ì	Ì
8924153	NPTF (12 9460)	1	1	1	1	ĺ							
	ELBOW, 90 DEG. INV. FL. 5/16" TUBE (12.9480)	1	1	1	1								
12.4070 -	TUBE, AIR COMPRESSOR LUBE OIL DRAIN												
8922976 5135293 5146838 8924174 143341	TUBE ASSY. HOSE, 5/8"X11 1/2" (2.5060) CLAMP, 1/2" (12.9660) ADAPTOR, PIPE 1/2"-14 (12.9590) ELBOW, 45 DEG. INV. FL. 5/8" TUBE (12.9480)	1 1 1 2	1 1 2	1	1 1 1 2								
5132237	FITTING, 5/8" INV. FL. (2.6005)	1 }	1	1	1				İ				
	CLIP, AIR COMPRESSOR LUBE OIL TUBE		١.,									ı	
2488022 5144629 11500712 120393 11501066	CLIP, 1/2" (12.8554) BRACKET, CLIP (4.6040) BOLT, M8X1.25X15MM (12.9001) WASHER, 5/16" (12.9190) NUT, M8X1.25 (12.9120)	1 1 1	1 1 1	1 1 1	1 1 1 1								
12.4085 -	TUBE, AIR COMPRESSOR WATER INLET						İ						
5129157 * 5120020 8924220 8924148 8924150 8924159	HOSE, 1/2"X23" (8.3830) FITTING, FEM. SWIV. 1/2" HOSE ELBOW, 90 DEG. 1/2" (3.5505) CONNECTOR, 1/2" (12.9380) ELBOW, 90 DEG. 1/2" TUBE (12.9390) BUSHING, RED. 3/4"X3/8" (12.9570) * STD. LENGTH HOSE, CUT TO LENGTH SHOWN.	2	1 2 1 1	1 2 1 1 1	1 2 1 1						:		
12.4090 -	TUBE, AIR COMPRESSOR WATER OUTLET												
5129157 5120020 8924148 8924220 8924150 8924159	HOSE, 1/2"X29" (8.3830) FITTING, FEM. SWIV. 1/2" HOSE CONNECTOR, 1/2" (12.9380) ELBOW, 90 DEG. 1/2" (3.5505) ELBOW, 90 DEG. 1/2" TUBE (12.9390) BUSHING, RED. 3/4"X3/8" (12.9570)	1 2 1 1	1 2 1 1	1 2 1 1	2 1 1								1

12.4000A AIR COMPRESSOR						
PARTFIG NUMBERNAME AND DESCRIPTION	1 1 9 5	1 1 9 6	1 2 1 8	1 2 3 8	TYPES	
12.4095 - CLIP, AIR COMPRESSOR WATER TUBE	}					
2362448 CLIP, .688" (12.8554)	1 2	1 2	1 2	1 2 1		
		:				
			İ			

12.5000A HYDRAULIC PUMP

		12.3000A TITBINACEIG FOWIF										
FIG .	PART NUMBER	NAME AND DESCRIPTION	1 7 6	1 7 9	1 8 1		T'	YPES .				
	12.5001	PUMP ASSY., HYDRAULIC										
1A 1A 1A 1A	NPN 7840125 7840126 9419885 9422277 666674	PUMP (CUSTOMER FURNISHED) PUMP, POW. STEERING PUMP, POW. STEERING BOLT, 3/8"-16X3/4" (12.9001) NUT, 3/8"-16 WASHER, 3/8"	2 1	1	1 2 1 2							
	12.5007	PULLEY, HYDRAULIC PUMP DRIVE										
1A 1A 1A	8922533 2436165 9418222	PULLEY, P/S 1 GRV WASHER, 1/2" NUT, 1/2"-20 (12.9120)	1		1 1						ļ	
	12.5009	BELT, HYDRAULIC PUMP DRIVE										
1A	9433882	BELT, V, .50"X38.5", 3 PLY	1		1					1 1		
	12.5023	BRACKET, HYDRAULIC PUMP SUPPORT					:					
1A 1A 1A 1A	8922532 8922531 11500929 11502474	BRACKET, FRONT BRACKET, REAR BOLT, M10X1.5X25 MM (12.9001) WASHER, M10 (12.9190)	1 1 4 4	1 1 4 4	1 1 4 4							
												n, and a second a second and a second and a second and a second and a second and a second and a second and a second and a second and a second a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second a second and a second and a second and a second and a second and a second and a second and a second a second and a second and a second and a second and a second and a second a second a second

12.8000A SUPPLIES

12.8000A SUPPLIES														
						0	COLU	JMN						
PARTFIG NUMBER NAME AND DESCRIPTION	A													
12.8001 - PAINT, ENGINE TOUCH-UP										-	- }		1 1	
8922283 PAINT, OCEAN BLUE ENAMEL (16 OZ.									. I	ſ	1	İ		
AEROSOL CAN)	1	ı								Ì	Ì	1		
CAN)	AR]]	
12.8110 - LUBRICATING COMPOUND THREAD														
5198563 INTERNATIONAL COMPOUND #2 (1 QUART)	AR													
									1			ł		
12.8255 - SEALANT, RTV	ļ.													
8922443 SEALANT, RTV 88 ML	AR	ļ					Ì						ļ	
OSELTIE SENDANI, NIV SVS NIEL	````	1]					-		-	} .	
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12.8000C SERVICE KITS AND SETS

	12.8000C SERVICE KITS AND SETS						
				CQL	JMN		
PART		IAI		1 1 1		1 1	1 1 1
FIG NUMBER	NAME AND DESCRIPTION			1 1			1 1 1
		1 1	1 1 1			}	1 1 1
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40.0745	MITO DEPLUAT (ALL)					-	1 1 1
12.8715	- KITS, SERVICE (ALL)	1 1		1 1 1	.		
8924126	GASKET KIT, ENGINE OVERHAUL TURBO	1 1		1 1 1	- 1 (1 1
0324120	(1.1002)	AR	1 1 1	í I I			1 + 1
8924117	GASKET KIT, ENGINE OVERHAUL TURBO	1,1		1 1 1	1 1	1 1	1 ()
	(1.1002)	AR		1 1 1	1 1		1 1 1
8924127	GASKET KIT, CYLINDER HEAD	\ \	-	1 1 1		-	1 1 1
0004440	OVERHAUL TURBO (1.2002)	AR					1 1 1
8924118	GASKET KIT, CYLINDER HEAD	امرا					1 1 1
5149724	OVERHAUL NON-TURBO (1.2002) TUBE KIT, INJECTOR HOLE (1.2045)	AR			- 1		1 1 1
8922110	CAM BEARING KIT (STD) (1.7040)	AR		1 1 1	1 1	1 1	1 1 1
8922394	CAM BEARING KIT (.5MM O.S.) (1.7040)	AR	1 1	1 1 1	- 1 1		1 1 1
5229930	SERVICE KIT, INJECTOR (2.1002)	AR		1 1 1	1 1		1 1 1
5199560	PUMP KIT, FUEL (2.2001)			1 1 1	1 1	i I	1 1 1
5195078	OVERHAUL KIT, FUEL PUMP (2.2004)						
8922981	GOVERNOR LINKAGE LOCK REWORK						
	KIT (2.7001)	AR					
5149876	GOVERNOR CONVERSION KIT (3000	11	1 1 1	1 1	1 1	} {	1 1 1
9000700	RPM) (2.7012)	AR					1
8922708	GOVERNOR CONVERSION KIT (3000						
8922983	RPM) (2.7012)BREATHER SYSTEM REWORK KIT	AR		1 1 1	1 1		1 1 1
0922903	(4.8046)	AR			1 1		1 ! [
8922901	GOVERNOR CONVERSION KIT (2000	12"		1 1 1	1 1		1 1 1
332233.	RPM TO 3000 RPM) (2.7012)	IARI		1 1 1	1 1		1 1 1
8924376	RECONDITIONING KIT, FRESH WATER	1′"'I		1 1 1	1 1		1
	PUMP (5.1002)	AR		1 1 1	1 1	1 1	1 1 1
	,			1 1 1	- 1 1	1	1 1 1
		1 1		1 1 1	J	1 1	1 1 1
12.8720	- SETS, SERVICE (ALL)	1 1	1 1 1	1 1 1	1 1	1 1	1 1 1
0004740	CHELL GET, ODANIKOHAETAAN				1 1		1 1 1
8921712	SHELL SET, CRANKSHAFT MAIN BEARING (STD) (1.3090)	امدا			1 1		1 1 1
8922948	SHELL SET, CRANKSHAFT MAIN	AR	∤ 	1	1 1		1 1 1
0322340	BEARING REAR (STD) (1.3090)	AR		1	1 1		
8921714	SHELL SET, CONNECTING ROD BEARING	17"1		1 1 1	1 1	1 1	1
	(1.6100)	AR		1 1 1	1 1		1 1 1
8921721	RING SET, PISTON (STD) (NON-TURBO)			1 1 1	1 1	1 1	1 1 1
	(1.6115)	AR		1 1 1	1 1	i I	1 1 1
8921722	RING SET, PISTON (STD) (TURBO)	11		1 1 1			1 1 1
	(1.6115)	AH				1 1	1 1 1
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12.8000D MISCELLANEOUS SERVICE PARTS

					ç	OLÚMN		:			
PART FIG NUMBER	NAME AND DESCRIPTION	^		} }					}		
								1			•
12.8801	- MISCELLANEOUS SERVICE PARTS - SECTION 1										
8920427	* GUIDE, FLYWHEEL HOUSING TIMING PIN (1.5106)	$ $ $_{1} $					1 1		Ì		
8920428	* PLATE, FLYWHEEL HOUSING TIMING PIN (1.5106)									1	
8922990	PLUG, FLYWHEEL HOUSING TIMING PIN (1.5001)						 				
	* OBSOLETE. * THIS ENGINE DOES NOT CONTAIN A		1		l i				. ſ		
	FLYWHEEL, EXHAUST MANIFOLDS OR					ļ		-		-	
	A WATER PUMP PULLEY. + THIS ENGINE DOES NOT CONTAIN A					ļ					
	FLYWHEEL OR A WATER PUMP PULLEY.			\ \							
12.8802	- MISCELLANEOUS SERVICE PARTS -										
. 2.222	SECTION 2										
12010085	TERMINAL, EEC GOVERNOR MALE (2.6645)	AR		1			1 1			1	
12015323 12020089	SEAL, EEC GOVERNOR WIRE (2.6650)	AR				Ì	1 1	\	1		1
12020083	GOVERNOR (6 WAY CONNECTOR) (2.6655)	AR									
12010300	PLUG, EEC GOVERNOR CAVITY	AH						ĺ			
5145783	(2.7563)	AR								ļ	
5101709	PLUNGER, GOVERNOR HIGH SPEED (2.7563)	AR	Ì	1 1							
5145784	RETAINER, GOVERNOR HIGH SPEED SPRING (2.7610)	AR					1 1				
5140045	LOCKNUT, LOW SPEED PLUNGER RETAINER (2.7561)	AR						Į			
5102803	(2.7558)	1 1			}		1 1				
5145781	CAP, GOVERNOR LOW SPEED SPRING (2.7580)	AR] [-	1
5145638	(2.7540)			1	1						
5145780	OUTER (2.7540)							ļ	1 1	1	
5140051	SHAFT, LOW SPEED SPRING PLUNGER (2.7557)							1			
5145782	PLUNGER, GOVERNOR LOW SPEED (2.7560)	AR	1		-	1	1				
5140049	RETAINER, GOVERNOR LOW SPEED ADJUSTING (2.7561)	AR							1 1		
5182558 5102804	LOCKNUT (2.7615)	AK				\ \	1 1				
8922593	GASKET, GOVERNOR SPRING HOUSING (2.7650)	1 1	İ							\ \	
8922515	SHAFT ASSY., FLEX (54" LONG) (2.7012)	1 1									
5102810	RING, SEAL (2.7694) SPRING, GOVERNOR HIGH SPEED	AR									
8922676	(2.7550)	AR								1	ĺ
8922280	SPRING, GÖVERNOR HIGH SPEED (2.7550)	AR								-	
5101708 5 1 01 7 06	CAP, RETAINER (2.7561) PISTON, GOVERNOR VARIABLE LOW										
5101705	SPEED (2.7736)PLUNGER, GOVERNOR VARIABLE LOW										
	SPEED (2.7560)	AR									

12.8000D MISCELLANEOUS SERVICE PARTS

	TO LINE
PART	
FIG NUMBER NAME AND DESCRIPTION	
12.8804 - MISCELLANEOUS SERVICE PARTS-SECTION 4	
8925360 * ADAPTOR, OIL PAN SEAL	AR
* FOR USE WITH ISOLATED OIL PAN 8922782 AND OLD STYLE FRONT	
COVER 8922074.	
12.8805 - MISCELLANEOUS SERVICE PARTS	
SECTION 5	
8922806 ELBOW, WATER OUTLIFT (RB) (5.3443)	
8925832 PLUG. 3/8" ZINC (5.500.1)	
8925835 COVER, HEAT EXCHANGER (5.5030)	
8925833 WASHER, FIBER (5.5030)	AR
(5.5050)	
11500775 BOLT, M8X1.25X50.0 MM (12.9001) .	AR
12.8807 - MISCELLANEOUS SERVICE PARTS	
SECTION 7	
8927033 GASKET (BETWEEN SOLENOID AND	
PLUNGER ASSY.) (7.4519)	AR

FEB., 1985

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